REPORT

OF THE

FOREST ADMINISTRATION IN THE BOMBAY PRESIDENCY

(INCLUDING SIND)

FOR THE YEAR 1921-22

BOMBAY
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List of trees and shrubs mentioned in the Report with their Latin names.

Vernacular Name.	Scientific Name.
Ain, Matti	*Terminalia tomentosa.*
Anjan	*Hardwickia binata.*
Babul	*Acacia arabica.*
Ber, Bor	*Zizyphus jujuba*
Blackwood	*Dalbergia latifolia*
Chinch	*Tamarindus indica.*
Hirda	*Terminalia chebula.*
Honne	*Pterocarpus marsupium.*
Lantana	*Lantana camara.*
Mhowra	*Bassia latifolia.*
Nim	*Melia azadirachta.*
Prickly pear	*Opuntia dillenii.*
Sandal	*Santalum album.*
Sissoo, Tali	*Dalbergia sissoo.*
Tarwad	*Casia auriculata.*
Teak	*Tectona grandis.*

FOREST ADMINISTRATION REPORT OF THE BOMBAY PRESIDENCY INCLUDING SIND FOR THE YEAR 1921-22.

CHAPTER I.

CONSTITUTION OF STATE FORESTS.

1.—ALTERATION IN AREA (FORMS 51 to 51-D).

The changes in forest area were as follows :—

Class of forest.	Area on 1st March 1921.	Added during the year.	Excluded during the year.	Area on 31st March 1922.
	Sq. m.	Sq. m.	Sq. m.	Sq. m.
Reserved	13,885·38	82·95	68·84	13,899·49
Protected	1,044·16	43·94	1·80	1,086·30
Total ..	14,929·54	126·89	70·64	14,985·79

The areas added and excluded comprise :—

	Gain. (Sq. m.)	Loss. (Sq. m.)
Afforestments and disforestments in favour of cultivation and for building sites, etc.	23·14	6·18
Alluvial accretions and erosions in Sind	17·88	19·83
New kachas in Sind first included in Reserved Forest and subsequently declared Protected Forest	28·24	28·24
Area converted from Reserved into Protected Forest (transfer from form 51 to 51A in S. D. Kanara)	13·86	13·86
Rectification of errors in Kanara and Sind	43·77	2·53
	126·89	70·64

Net gain 56·25 square miles.

The forest areas in charge of the Revenue and Forest Departments stood as follows :—

	On 1st April 1921. (Sq. m.)	On 31st March 1922. (Sq. m.)
In charge of the Forest Department.		
Reserved	12,075	12,094
Protected	496	538
In charge of the Revenue Department.		
Reserved	1,811	1,806
Protected	548	548
	14,930	14,986

2.—FOREST SETTLEMENTS (FORM 52).

Forest settlements are on the whole complete. The operations of the year are shown in Form No. 52 for each circle. The areas involved are as follows :—

	Sq. m.
In hand on 1st April 1921	102·65
Taken in hand during the year	46·42
	149·07
Finally settled during the year	117·35
In hand on 31st March 1922	31·72

The cost of settlement was Rs. 12,248.

The Special Forest Settlement Officer, Mr. Collins, has revised the existing settlements wherever necessary in Kanara and submitted proposals to Government for the conversion into Minor Forest of certain Reserved Forests in the coastal tracts.

These proposals necessitate considerable alterations in the coast Fuel Working Plans and will necessitate a rearrangement of the existing Forest Divisions.

A revision of the Forest settlement of the Haliyal and Sambrani Ranges was carried out by Mr. Collins to settle the question of privileges.. The Report is complete and will shortly be submitted to Government.

The more important work outstanding under this head consists of the inclusion of rabi lands in the Peint Taluka in Reserved Forest, the transfer of the management of the woodland Protected Forests in Thana to the Forest Department and the acquisition of teak-bearing lands within the demarcation limits in the Poona and Satara Divisions. It is hoped that Special Officers to deal with these areas will shortly be appointed.

3.—DEMARCATION (FORM 53).

Seventy-four miles of boundary were artificially demarcated and 24,317 miles repaired at a cost of Rs. 3,665. The length of boundaries still to be demarcated is 107 miles.

The new work carried out was in East Thana, East Nasik, Poona, Kolaba, Belgaum, Shikarpur, Larkana, Hyderabad and Karachi.

The work to be done lies in Poona, Kolaba, Kanara W. D., Belgaum and Dharwar-Bijapur.

4.—FOREST SURVEYS (FORM 54).

No surveys were carried out during the year. The area remaining to be surveyed is 276 square miles in the Dharwar-Bijapur Division and 1,139 square smiles, forming the whole of the forest area of the Circle, in Sind.

The total expenditure on constitution of state forests was as follows :—

Circle.	1920-21.	1921-22.
	Rs.	Rs.
Northern	19,964	13,233
Central	1,960	1,591
Southern	4,945	2,291
Sind	932	..
	27,801	17,115

CHAPTER II.

MANAGEMENT OF STATE FORESTS.

1.—REGULATION OF MANAGEMENT.

(a) Preparation and Control of Regular Working Plans.

Preparation (Form No. 55).—Except in Sind, where no new plans are needed, the absence of a full-time Working Plans Officer was keenly felt and was the cause of little headway being made in the important work of preparation and revision of working plans. In the Northern Circle the revised Thana Working Plan received the sanction of Government during the year ; and in Sind the revised Working Plan of the Upper Sind Forests was completed and approved by the Chief Conservator, and will shortly be submitted to Government for sanction. In the Southern and Central Circles work of only a preliminary nature and of secondary importance could be undertaken. The inspection of the Mahableshwar and Matheran forests was completed by the Conservator of Forests, Central Circle, Mr. Hodgson, who hopes to submit revised plans for these forests shortly. But important work remains to be done both in Kolaba where it has been decided to introduce clear-cutting on a 60 year rotation, and in West Khandesh where the revenue waste lands, hitherto worked, are nearly exhausted and a plan for the reserved forest is urgently required. In the Southern Circle some notes were made by Mr. Millett on the state of growth of timber and bamboos in Block VII of the High Forest Plan of Kanara N. D. and two provisional coupes were laid out for sale standing. The revised working plan of the Yellapur and Mundgod High Forests drawn up by Mr. Edie is still in the press. The rotation for casuarina plantations has been reduced from 30 to 20 years in the case of the Haldipur and Kasarkod Plantations and from 30 to 15 years in the case of Kanara W. D. plantations in the light of the experience gained about their growth. Other changes are the introduction of the system of

closure by sub-blocks instead of by single coupes in the Golihalli-Godoli and Dharwar Taluka Working Plans, and of clear-cutting (except for reservation of sandal) in the teak pole areas of Haliyal, Mundgod, Godoli-Golihalli and the Dharwar and Bankapur-Hangal pole areas which were hitherto under coppice with standards. The complete revision of these plans will require the services of a full-time Working Plan Officer. A number of working plans taken in hand in previous years are not yet complete, including the working plan for the Honavar and Bhatkal fuel areas, the Ankola-Kumta Fuel Working Plan, the Working Plan for the regeneration of the Gund forests, the revised Khanapur Fuel Plan and the Working Plan for the Bijapur forests.

Control (*Form No. 55A*).—The prescriptions of sanctioned working plans were carried out in the majority of cases without serious deviations. In the Northern Circle exploitation of certain coupes in the Dangs and Peint had to be held back pending improvements in communications; the coupes in the South Dangs being found too large for effective supervision, had each to be sub-divided into two; two areas, in addition to the usual coupes, were demarcated and clear-felled in Sakalpatal and Galkund to provide material for the new sawmill; and 200 acres were similarly treated in the North Dangs in lieu of being treated under Improvement fellings as hitherto. Minor deviations in the Southern Circle were due to labour difficulties, the high cost of extraction and the depression in the timber trade as a result of which contractors were in many cases unwilling to undertake exploitation. The operation of the Yekambi-Sonda High Forest Working Plan has been held in abeyance with the approval of Government as the forests could not, under present conditions of labour and extraction, be worked profitably.

(*b*) *Preliminary Working Plan Reports.*

Data for the revision of the working plans of the Kolaba, Dangs and Peint forests are being collected; but the work is much hampered for want of full-time Working Plan Officers for each circle.

(*c*) *Plans of Operations.*

These are discontinued under Government orders.

2.—COMMUNICATIONS AND BUILDINGS.

(*a*) *Roads and Bridges.*

Owing to the curtailment of expenditure much less progress was made under this head during the year than in previous years. The total expenditure was Rs. 2,47,977 against Rs. 3,16,626 during the last year, the bulk of the expenditure being in the Northern and Southern Circles. In the former Rs. 53,000 were spent on new works and Rs. 9,000 on repairs, corresponding figures for the Southern Circle being Rs. 1,30,000 and Rs. 54,000 respectively. The Southern Circle figures include Rs. 25,000 contributed to the Kanara Local Board roads and nearly Rs. 3,500 spent by this Department on the upkeep of 69 miles of Local Board roads, mainly in Belgaum, in charge of the Forest Department. Most of these roads are however to be handed back to the Local Board as they are not of much use to the Forest Department and 41 miles have already been so handed back during the year.

Notable progress was made on the following works, *viz.*, the Dara-Wadi road in North Khandesh of which 10 miles were constructed during the year, the Subir-Nawapur road which is now being constructed departmentally under the supervision of an Extra Assistant Conservator of Forests, and the Subir-Karanjara road connecting Subir with the new site of the sawmill in Surat Division; the Aurli, Shiroli Ghat and Nagzari roads, the crossing over the Kali Nadi at Bomanhalli, the Haliyal-Kawalwad and Bhagwati-Bomanhalli bridges in Kanara N. D.; the Chipgeri-Bilki, Dhundshi-Mundgod, Shidalgundi-Kirwatti roads and the Kanadgal bridge in E. D. Kanara; the Karve-Patne and Gunji roads in Belgaum; and the Kudalgi-Hasrambi road in the School Division.

A good deal of preliminary survey work was also done in the Dangs and in some of the Kanara forests. Mr. Martin, the Consulting Forest Engineer, accompanied by Mr. Pipe and the Conservator of Forests, N. C., toured in the Dangs in order to formulate a practical scheme for the exploitation of the Kot jungles. The construction of a light railway from Kalamdhar to Jharia to join the Bilimora-Kala-Amba

Railway (when extended upto Jharia by the Baroda Durbar) has been proposed and preliminary schemes have been drawn up both by the Consulting Engineer and by Mr. Pipe ; the detailed plans and estimates are under preparation and a survey of the line has been commenced. A rough survey of the proposed road from Ozar to Udhwa, running through Daman territory to meet the Sanjan-Udhwa road, was also made ; and nearly Rs. 7,000 were spent on the Bhagwati-Kirwatti (railway line) and Potoli-Dandeli (light railway line) surveys in the Southern Circle.

(*b*) *Buildings.*

Here again the want of funds was responsible for a great curtailment in the building programme. Rs. 1,56,192 in all were spent during the year on new buildings and repairs as against Rs. 1,80,514 in the last year, most of the building activity being again in the Northern and Southern Circles where in many places the problem of suitably housing the subordinates is still acute.

The original estimates were in many instances exceeded partly owing to proper estimates not having been framed in the beginning and partly owing to prices of material and cost of labour still maintaining a high level.

(*c*) *Miscellaneous Works.*

Rs. 24,118 were spent under this head this year as against Rs. 19,143 last year, Rs. 13,528 being on new works and Rs. 10,590 on repairs. The expenditure was mainly on wells and water supply, excepting Rs. 2,000 on telephones in E. D. and N. D. Kanara. The Dandeli water works were finished during the year at a total cost of Rs. 16,355, of which Rs. 8,371 were spent during the year.

3.—PROTECTION OF FORESTS.

(*a*) *General Protection.*

The number of offences during the year is compared with the number in previous years below :—

	1921-22.					1920-21.	Average, 1918-19 to 1920-21.
	Northern Circle.	Central Circle.	Southern Circle.	Sind Circle.	Total.		
I.—Injury to forest by fire ..	453	555	914	147	2,069	2,841	2,467
II.—Unauthorised felling or removal of produce.	2,416	2,826	1,324	1,220	7,786	8,201	8,881
III.—Unauthorised grazing ..	2,308	2,008	894	1,148	6,358	7,276	7,912
IV.—Other offences ..	248	855	114	45	1,262	1,732	1,461
Total ..	5,425	6,244	3,246	2,560	17,475	20,050	20,721
1920-21 ..	5,210	7,702	4,133	3,005	20,050	..	..
Average of past 3 years ..	5,412	7,416	4,526	3,367	20,721	..	..

The decrease in the total number of offences, amounting to 12 per cent., is shared by all the circles except the Northern Circle, where the increase was mainly under illicit grazing and fellings in the North and West Thanas and in the Panch Mahals. In the Central Circle also, in spite of the general decrease, offences under unauthorised fellings rose in Satara, North Khandesh and Poona, as did also those under illicit grazing in the two former.

Five hundred and six new cases were taken into court during the year ; 556, including those from the previous year, were decided during the year, and of these 492 or 88 per cent. resulted in convictions. 14,199 cases were compounded and compensation amounting to Rs. 91,364 was recovered in 13,464 cases, the average per case being Rs. 6·7, which is slightly higher than last year's average of 6·1. 3,368 or 19 per cent. of the total number of 18,123 cases remained undetected as against 3,930 in the previous year. The percentage of convictions secured is on the whole satisfactory. An unwelcome feature of some of the Sind cases was the assaulting of Government servants in the discharge of their duties.

(*b*) *Protection from Fire.*

There was a great improvement under this head and a return to more normal conditions, as will be seen from the following statement :—

Circle.	Year.	Area attempted to be protected.	Failures.	Area actually protected.	Percentage of areas actually protected.	Cost.	Cost per sq. mile protected.
		Sq. m.	Sq. m.	Sq. m.		Rs.	Rs.
Northern ..	1921-22 ..	3,258	109	3,149	96·6	19,592	6·2
	1920-21 ..	3,258	106	3,152	96·7	23,539	7·5
Central ..	1921-22 ..	2,681	168	2,513	94·0	9,659	3·8
	1920-21 ..	2,679	395	2,284	85·2	14,354	6·3
Southern ..	1921-22 ..	4,284	233	4,051	94·6	11,027	4·4
	1920-21 ..	4,245	626	3,619	85·3	17,871	4·9
Sind ..	1921-22 ..	520	5	515	99·0	3,642	7·0
	1920-21 ..	518	4	514	99·0	1,713	3·3
Total ..	1921-22 ..	10,743	515	10,228	95·2	43,920	4·3
	1920-21 ..	10,700	1,131	9,569	89·4	57,477	6·0

A feature of the year's fire protection operations was the *early burning* under control of forest areas in parts of the Southern Circle. The clearing and maintenance of fire lines, the keeping of fire patrols and the enforcement of communal responsibility which are the usual methods for preventing fires elsewhere had proved ineffectual to prevent fires in many forests of Belgaum and Kanara. Early firing was therefore resorted to in the months of December and January, when the fires burnt grassy patches without damaging the tree-growth and rendered the forests more immune to fire in the hot weather. The system was fairly successful, and will be extended to the closed areas next season.

Communal punishment for bad fire protection was carried out by the imposition of grazing fees at enhanced rates and the suspension of privileges in the Central and Southern Circles. 134 villages in the Central Circle and 212 in the Southern Circle were thus punished, mainly in the three Khandesh Divisions and in C. D. Kanara, and Belgaum. As a reward for good protection remission of grazing fees was granted in 441 villages in the Southern Circle, and similar remissions were given in the Central Circle. Free grants and rewards were also given in a number of cases.

The number and origin of fires are shown below :—

Origin of fires.	Number of fires.		Area burnt.	
	1921-22.	1920-21.	1921-22.	1920-21.
	Nos.	Nos.	Acres.	Acres.
A.—Burning of fire lines	30	63	3,849	11,864
B.—Crossing exterior lines	188	278	31,254	98,913
C.—Accidents (persons in forest)	440	568	68,620	98,656
D.—Intentional (persons in forest)	136	218	30,026	44,736
E.—Railway engines	19	32	503	12,133
F.—Lightning	....	....	....	....
G.—Causes unknown	1,256	1,686	199,098	457,183
Total ..	2,069	2,845	333,350	723,485

(*c*) *Protection from Cattle.*

The forest areas open and closed to grazing were as follows :—

	Square miles.	Per cent.
Closed to all animals for the whole year ..	2,456	16·4
Closed to all animals for part of the year ..	289	1·9
Open to all animals except browsers for the whole year ..	9,116	60·8
Open to all animals except browsers for part of the year ..	....	....
Open to all animals for the whole year ..	3,125	20·9
Total ..	14,986	

The numbers of cattle admitted to grazing were as given below :—

Circle.	Horned cattle.		Sheep and goats.		Camels.		Other animals.		Total.	
	1921-22.	1920-21.	1921-22.	1920-21.	1921-22.	1920-21.	1921-22.	1920-21.	1921-22.	1920-21.
Northern ..	629,052	703,573	100,007	95,860	..	..	1,910	1,690	730,969	801,123
Central ..	793,702	740,487	150,965	69,540	..	..	8,583	5,941	953,250	815,968
Southern ..	430,009	522,405	82,717	60,919	..	..	128	681	512,854	584,005
Sind ..	42,956	62,528	52,225	117,888	1,316	1,344	4,729	5,691	102,226	187,451
Total ..	1,896,719	2,028,993	385,914	344,207	1,316	1,344	15,350	14,003	2,299,299	2,388,547

The great decrease in Sind is explained by the exclusion of sheep and goats from certain forest areas hitherto open to them and the absence of the large numbers admitted to free pasture in the previous year owing to scarcity of fodder. The increase in the Central Circle is due partly to sheep and goats being admitted to certain forests from which they were hitherto excluded and partly to greater care in collecting grazing fees.

Rs. 3,13,408 were collected as grazing fees, the value of the grazing at full rates being Rs. 19,53,386. The figures for 1920-21 are Rs. 2,79,846 and Rs. 17,97,842 respectively.

It has been long recognised that the fees levied for grazing represent only a small fraction of its value and the question of a general increase in the scale of fees is under consideration. A beginning has been already made in the case of Satara where the old fees have been doubled without the people complaining of any hardship and with material benefit to the finances of the Division. Sheep and goat grazing also, it has been found, can safely be allowed in many of the Central Circle forests ; and an experiment is being made in Satara, in response to local demand, to apply closure with a view to providing fodder for cutting and improving the grazing.

Details about cattle impoundings are given below :—

Circle.	Horned cattle.		Sheep and goats.		Other animals.		Total.		Total open and closed.	
	Open.	Closed.	Open.	Closed.	Open.	Closed.	Open.	Closed.	1921-22.	1920-21.
Northern ..	3,512	28,155	10,498	3,964	41	243	14,051	32,362	46,413	45,744
Central ..	2,712	28,604	9,927	2,124	81	108	12,720	30,896	43,616	41,333
Southern ..	433	8,136	1,026	6,139	..	9	1,459	14,284	15,743	16,827
Sind ..	1,299	3,784	2,626	8,309	994	2,379	4,919	14,472	19,391	15,963
Total ..	7,956	68,739	24,077	20,536	1,116	2,739	33,149	92,014	125,163	119,867
Average of past 3 years.	8,200	94,340	28,227	17,464	525	2,702	36,952	114,506	151,458	..

Except in the Southern Circle the figures show an increase in impoundings which is attributed to greater vigilance on the part of the protective establishment. The question of providing more pounds in Thana, to which reference was made in the last report, is held over until it can be shown that the pounds will be self-supporting.

(d) Protection against injuries from natural causes.

The fight against climbers, lantana and prickly pear was carried on as far as possible with the limited funds available, the work being done mostly by guards or in the course of the working of annual coupes and thinnings. Even so, lantana, wherever it has established itself, is spreading at an alarming rate and no methods yet known, which are not at the same time prohibitive in cost, have any appreciable effect upon it. An application of " Atlas solution " only temporarily killed back the pest. In West Nasik 40 acres covered with the weed were given out for cultivation on the agri-cum-forestry system and yielded a fine crop of Nagli ; and in Kolaba people were encouraged to take it away free for fuel. But these expedients are not capable of extension to other less favourably situated localities and it is feared that no cheap and expeditious means of eradicating the plant has yet been found.

More than normal injury resulted throughout Sind to babul seedlings through frost; and erosions took away 19·8 square miles of forest in the same circle, as against 18 square miles in the previous year, as shown below.

	Square miles.
Growing valuable timber	3·4
New alluvium without trees	4
„ „ with young trees	6·2
Coupes under regeneration	1
Blanks	5·2
Total ..	19·8

Rs. 37,148 worth of material was exploited from this area; but growth valued at Rs. 1,540 could not be saved. In addition, 3,626 acres were exploited in anticipation of erosion and fetched Rs. 45,946.

The Babul defoliator in Sind and the teak defoliator and teak stem borer in the Southern Circle were also responsible for considerable damage. Teak seedlings suffered a good deal from pigs and rodents in Thana, where waste cotton soaked in phenyle and grease were tried for keeping them away but without more than temporary success. In the Southern Circle damage was done by porcupines in S. D. Kanara, while older plants suffered from bison and sambhar. The Central Circle has to record serious landslips, involving destruction of tree-growth in Kolaba through excessive rain, and injury to Anjan trees through indiscriminate exercise of privileges in Khandesh.

CHAPTER III.

SYLVICULTURE.

(*a*) NATURAL REPRODUCTION.

(*i*) *State of existing reproduction.*

Sind is the only circle which can record the results of the year as generally satisfactory. There was good rain in this circle and the inundations also were favourable, with the result that natural reproduction from seed was abundant and coppice growth also satisfactory. Advantage was taken of these conditions to sow up blanks in the drier forests. The only unfavourable factor was frost which was rather severe, but the damage was fortunately not serious, a large percentage of the plants which had suffered having recovered with the advent of warm weather.

In the other circles results were on the whole not so favourable. The Northern Circle suffered from too much rain, especially in the Thana Divisions, where regeneration from seed was for this reason much below normal. The Southern Circle had a very poor seed year as regards teak, as was also the case with the Central Circle (except in East Khandesh, Kolaba and Satara). Natural reproduction suffered as a result, but was on the whole satisfactory in the Southern Circle and in the three divisions of the Central Circle above mentioned. Reproduction from coppice was in general satisfactory in all the three circles, the experiment of cutting Anjan stumps 12 inches above ground yielding good results in the Central Circle.

(*ii*) *Measures for inducing or aiding reproduction.*

The agri-cum-forestry method was given a further trial during the year with various results. In Sind the results were excellent and the Conservator is of opinion that it should be extended wherever conditions are favourable. In the Southern Circle, however, owing to the persistent refusal of the people to carry out instructions less satisfactory results were obtained. There is no doubt that the method is capable of yielding good results where the people are amenable to instructions.

The other measures for inducing natural reproduction were ploughing followed by broadcasting, dibbling, drill, patch, and pit sowings, transplanting plants from nurseries and elsewhere, burning refuse in patches and dibbling with seed. Over 26,000 acres were treated in Sind and yielded valuable results. In the Northern Circle nearly 1½ lakhs of patches were prepared which yielded over 11 lakhs germinations of teak seedlings; of these 40 per cent. were surviving at the end of the year. The results might have been better but for the heavy rain, without break, in the earlier part of the monsoon in the Thana Divisions, the absence of sufficient rain in

East Nasik and fires in East Thana. 425,223 transplants were also put out in this circle of which 43 per cent. survived, the area of the coupes thus regenerated being 9,439 acres. The expenditure on all these measures in the circle was Rs. 13,190.

In the Central Circle good results were obtained from ploughing and sowing in babul coupes in East Khandesh where the failures of the previous year are now covered with a fairly complete crop from the old seed, owing to a favourable monsoon. The results in North and West Khandesh were less satisfactory owing to insufficient rain. In the latter division agri-cum-forestry plantations in Anjan coupes showed better results, as did also tarwad plantations on 59 acres. Tarwad seed germinated freely in Poona also, but survivals were only 500 per acre, owing to lack of moisture. Babul, Nim, Bor, Chinch and Sandal seedlings from seed sown in ploughed coupes showed better results, 50 per cent. of the 1½ lakhs seedlings surviving. But in teak coupes the insufficient rain unfavourably affected the teak germination. The teak plants on the 600 acres leased to the Thakurs for agri-cum-forestry are however established.

In the Southern Circle the main problem is the regeneration of teak in clear cut areas in High Forests and in the teak pole coupes. Dibbling of seed and transplantation of seedlings were the methods employed in areas on which the refuse from fellings had been previously burned. Results from dibbling were indifferent, but transplants yielded better results, and more than 400 acres in N. D. Kanara were thus successfully planted up. Agri-cum-forestry as already noticed was a failure owing to the refusal of the villagers to carry out the instructions.

(*b*) TENDING OPERATIONS IN NATURAL CROPS.

Weeding and freeing of seedlings was carried out in all the circles—especially in the teak bearing areas of the Northern and Southern Circles—with very beneficial results. In these the teak plants were also carefully mulched, and injured and misshapen plants cut back. In most divisions unorganised departmental work consisting of the cutting back of damaged, badly shaped and unsound trees, as well as those of inferior species which suppressed more valuable ones, was carried out. Creepers were cut. Thinnings in babul areas in Sind and Poona and in the teak areas in Kanara N. D. and Belgaum were carried out. Systematic thinning work was done on a large scale in the three Thana Divisions of the Northern Circle where 501 coupes were thinned during the year at a cost of Rs. 31,888 with a revenue of Rs. 97,831. The extension of thinning work in the Thana coupes is now under consideration.

(*c*) ARTIFICIAL REPRODUCTION.

(*i*) *Regular Plantations.*

These consist of the Sissoo plantations in Sind and of the casuarina plantations along the coast in Kanara, Kolaba and Thana. Six acres were added to the former, making a total of 485 acres at the close of the year. Of these 33 acres were thinned and yielded 2,756 c.ft. of timber and 21,325 c.ft. of fuel, bringing in a small net surplus of Rs. 110 on an expenditure of Rs. 1,388. As regards the casuarinas, 57 acres were newly planted during the year and older plantations were watered, at a a total cost of Rs. 16,110. Forty acres in the Southern Circle were cut and disforested during the year and 14 more are to be cut and disforested when the trees are mature. On the other hand 30·4 acres were added to the W. D. Kanara plantations. In the Northern Circle the upkeep of these plantations has been found by experience to be unjustifiable on account of the high cost of establishing them, and consequently no more money will be spent on them and the one at Arnala will, if possible, be sold.

(*ii*) *Taungya Plantations.*

The only circle where work under this head was attempted was the Southern Circle. The results so far attained, vary very much. Some of the older plantations are doing very well, but recently there have been a good many failures. One thousand and twenty-five acres were under taungya at the close of the year, 367 being newly added. But on 63 of these at Nersol and Ganeshgudi, in spite of a second burning in May 1921, not more than 1 seedling to 100 patches dibbled was obtained and the area will have to be filled up with seedlings from nurseries. An attempt to regenerate a further 10 acres had to be abandoned as the burning was

unsatisfactory. One hundred and twenty-four acres have been clear felled for regeneration in 1922-23. Seventeen acres in C. D. Kanara had greater success. In S.D. Kanara the 1919 plants are doing well, but the 1920 areas were on the whole a failure. The 300 acres of 1921 also failed through the dibbled seed not germinating. But in the Tali Palm area the 164 acres felled in 1919-20 show good growth of tali and teak. The experience so far obtained shows that in these plantations dibbling of seed is far less reliable than transplanting, and permanent nurseries are now being established in every area where the Taungya system is in force.

(iii) Other forms of artificial reproduction.

No work of importance was undertaken.

CHAPTER IV.

EXPLOITATION.

(a) SYSTEM OF MANAGEMENT.

(i) Major Forest Produce.

The systems in force are :—

Clear fellings.—In the teak forests of the three Thana Divisions and of the Panch Mahals (with the exception of Halol Range); the Babul forests of Yeola in East Nasik, of Bijapur sub-division and of Sind*; the casuarina plantations of Kolaba and Kanara and of certain High Forest areas selected for regeneration in Kanara.

Improvement fellings.—In the Anjan forests of Malegaon (East Nasik), the teak forests of the South Dangs, the Satpuda forests of East and North Khandesh; in the Umarpata, Deomogra, Dhulia and Pimpalner forests of West Khandesh, the Mahableshwar and Matheran plateaus of Satara and Kolaba; the Wadgaon, Paud and Rajur forests of Poona and in certain High Forest blocks of Kanara. Work under this system had to be considerably restricted in the Kanara divisions through the difficulty of getting purchasers for the trees marked. In the Dangs the attempt referred to in the last report to combine " regeneration areas " with these fellings was made during the year; and 4 experimental areas ranging from 110 to 200 acres were marked and clear felled except for saplings of good species under 32" in girth. If the attempt to regenerate these plots succeeds there is no doubt that a new working plan will have to be drawn up as a result of this experiment.

Selection fellings.—In the below ghat forests of Nasik in Dindori, Peint and the Baragaon Dangs; and in all the five Kanara divisions, where 9,535 teak and 11,907 junglewood trees were cut during the year under the system. Work in Peint was considerably curtailed pending improvements in communications, the provisions of the working plan being practically held in abeyance except for areas that were easily accessible. The revision of the plan on a basis of concentrated regeneration is contemplated and will be taken in hand next season; and to this end 200 acres were experimentally dealt with yielding 170 tons of logs and 519 tons of material fit for a sawmill.

Coppice with standards.—In Halol, Mandvi, Bulsar and Chikhli, in Igatpuri and the above ghat forests of Nasik, in the teak forests of Poona, Satara and Kolaba and Edlabad in East Khandesh, in the teak pole forests of all the divisions in the Southern Circle.

Unregulated fellings.—Mostly for free grants and to meet departmental demands of Government Departments and to anticipate erosions in Sind. Sandalwood was also thus exploited. The clearance of rides at Mahableshwar and sale of Royalty trees in unoccupied lands and of reserved trees in unassessed Government waste lands (*e.g.*, in West Khandesh), the removal of dead and fallen trees (*e.g.*, in C. D. Kanara and Dharwar-Bijapur) and the clearing of valuable timber from grazing grounds demarcated according to the new plan in Kanara E. D. are also to be included under this head.

(ii) Minor Forest Produce.

Minor produce is either sold on permits for local consumption, or farmed to contractors as in the case of hirda, tarwad bark, etc., or in a very few cases, depart-

* With reservation of groups.

mentally collected, *e.g.*, mhowra seed and flowers, lac, etc. A noteworthy feature under this head is the rise in the revenue from lac from Rs. 2,625 in the previous year to Rs. 13,084. It is proposed to train a Ranger under Mr. Harlow, the lac expert of the Central Provinces, with a view to developing the lac resources of Sind.

(*b*) AGENCY OF EXPLOITATION.

(*i*) *Departmental Agency.*

The main operations carried out departmentally were : the extraction of timber for sale at depôts and for direct supply to Railways and Government departments mostly in the Southern Circle and in the Dangs ; the supply of sleepers and fuel to railways in the Southern Circle and of fuel to Municipalities and to departmental fuel depôts at Mahableshwar and Matheran and in Thana and Kanara ; the collection of dead wood and of mhowra, hirda and other minor produce ; the thinnings on a large scale in Thana. The aim of the department is more and more to transfer exploitation to private agency as in Thana and the Central Circle and only the difficulties of extraction and the absence of a suitable class of contractors to work in the High Forest areas of the Southern Circle and the Dangs and Peint make it necessary for the department to undertake this work. Also in Sind a certain amount of departmental working has been found desirable as a check on contractors' rates.

The outturn of these operations is shown below :—

Circle.	Year.	Major produce.				Minor produce.			
		Timber in thousands of cft.	Fuel in thousands of cft.	Total in thousands of cft.	Sandal-wood.	mboos.	Grass.	Other.	Total.
					Rs.	Rs.	Rs.	Rs.	Rs.
Northern ..	1921-22 ..	476	851	1,327	100	308	144	11	463
	1920-21 ..	281	528	809	41	..	44,940	..	44,940
Central ..	1921-22 ..	14	512	526	1,258	..	..	10,989	10,989
	1920-21 ..	4	476	680	896	..	..	34,489	34,487
Southern ..	1921-22 ..	1,293	3,975	5,268	80,663	326	38	2,800	3,164
	1920-21 ..	1,152	3,299	4,451	61,445	172	..	4,033	4,205
Sind ..	1921-22 ..	15	3,402	3,417	..	..	..	1,944	1,944
	1920-21 ..	34	2,199	2,233	..	..	..	215	215
Total ..	1921-22 ..	1,798	8,740	10,538	82,021	634	182	15,744	15,560
	1920-21 ..	1,471	6,702	8,173	62,382	172	44,940	38,735	83,847
Difference ..		+327	+2,038	+2,365	+19,639	+462	−44,758	−22,991	−67,287
Percentage of total outturn from all sources.		32·7	17·3	19·2	100	·5	·02	3·9	1·0

* In Sind an attempt was made during the year to work a few coupes in Karachi and Hyderabad on the share system, and the supply of 465,169 cft. of fuel to the Municipalities of Karachi and Hyderabad brought in a net profit of Rs. 42,661 or 154·7 per cent. on the outlay.

The Central Circle has to report a poor crop of mhowra seed in Khandesh and reduced collection of hirda owing to slump in prices.

In the Northern Circle the increased outturn under major produce is due to arrear thinnings in Thana where in all 501 coupes were thinned during the year and to the extraction of over 12,000 cft. in the Panch Mahals for famine fodder storage sheds. The decrease under minor produce is due to extraction of grass from the Tansa area having been abandoned. About a third of the coupes thinned were exploited on the share system. The thinnings show a probable net profit of Rs. 1,14,000 over an outlay of nearly Rs. 32,000 if the estimated value of material in hand is considered. There is still however room for improvement, which it is hoped will be effected as a result of the Thinnings Conference held by the Conservator of Forests, N. C., in July 1922.

In the Southern Circle the output is still low compared to the average of previous years, though somewhat higher than last year. This is due to the great difficulty in obtaining reliable contractors, owing to labour difficulties, and want of capital.

Attempts are now being made to sell timber in High Forests direct to purchasers as in the teak pole forests. This may reduce the profit per ton in the beginning before competition has come into full play but will, it is hoped, at least assure a steady income instead of leaving the department at the mercy of the present carting contractors whose failure to work up to agreement has now become proverbial.

Average prices of all timber showed a considerable fall at all sale depôts during the year and the tendency is in the direction of a still further fall.

Departmental fuel depôts were again a source of considerable loss to Government in Kanara, as the fuel under the rates in force was being sold considerably below its cost price. With the increased rates now sanctioned by the Commissioner, S. D., it is hoped that it will be possible to hand over the depôts to contractors on contract, as is the general rule in the other circles. The system of preparing stacks of fuel in coupes and allowing people to take it away in their own carts, to which reference was made in the last report, has proved a complete failure, as people found it cheaper to buy fuel at the depôts at a price much less than the cost of cutting and carting.

Sawmills.—Of the 7 sawmills (including the contractors' sawmill at Waghai in the Dangs) only 4 worked at a profit during the year, the largest profit being from Mill No. 1 in N.D. Kanara which gave a net* income of Rs. 66,616 ; the Waghai Contractors' mill which is worked on a share system† came second with Rs. 24,337 and the E. D. Kanara mill third with Rs. 11,385 ; W. D. Kanara could show only Rs. 1,579 as profit. Against these are to be set the losses mainly due to the mills being idle during a part of the year, owing to the necessity for repairs and removals to new sites, and in one case to difficulty in securing a Foreman and ill-health of the establishment. Thus there was a net loss of Rs. 3,444 on Mill No. 2 in N. D. Kanara and Rs. 4,248 on the C. D. Kanara Mill and Rs. 6,695 on the Government mill in the Dangs.

During the year the departmentally worked sawmill was removed from Subir to Karanjara and repairs were carried out. It was not therefore working for the whole year. The outturn is stated to have improved during the last three months.

The outturn was :—

Kind of material.	Number.	C. ft.	Value.
			Rs.
Sizes	25,132	10,419·63	13,404
Boards	7,449	1,551·61	3,855
Battens	16,156	4,492·24	6,808
Total ..	48,737	16,463·48	24,067
Total, 1920-21 ..	48,937	10,774·27	20,263

The quantity of sawn material supplied for departmental purposes was :—

Kind of material.	Number.	C. ft.	Value.
			Rs.
Sizes	5,462	1,844·62	Rs. 3 per C. ft.
Boards	1,638	417·16	
Battens	2,591	177·11	
Total ..	9,691	2,438·89	7,314

* After allowing for all working expenses and depreciation but not interest.

† Government share 8 annas in the rupee for the material taken from the forest.

The balance sheet prepared according to the probable value of the material on the spot, *i.e.*, deducting cartage to Fort Songhad, is as under :—

	C. ft.	Rate.	Amount.
		Rs. a. p.	Rs. a. p.
Sizes	10,419·63	1 4 7	1,3404 6 8
Boards	1,551·61	2 7 9	3,854 12 6
Battens	4,492·24	1 8 3	6,808 8 9

Working expenses.

	Rs. a. p.
Local stores	6,435 0 3
Establishment	8,487 2 8
Collection, cross cutting	10,500 14 1
Miscellaneous	1,839 8 10
10 per cent. depreciation of machinery ..	3,500 0 0
	30,762 9 10
Loss ..	6,694 13 11

This balance sheet, which is to some extent merely an estimate, shows the mill to be working at a loss and the Divisional Forest Officer gives no reason for this except that repairs were carried out during the year. His explanation is being asked and the matter will receive careful consideration during the coming year.

The outturn of the contractors' sawmill at Waghai was :—

Material.	Quantity.	Price realised.	Rate per C. ft.	Remarks.
		Rs.	Rs. a. p.	
Sizes	15,446·97	32,662	2 1 9	Contractor's share 8 annas in the rupee.
Battens	4,152·65	8,260	2 14 3	
Boards	6,046·46	17,507	2 14 3	Rs. 58,429 ÷ 2 = 29,215 — 4,878 carting charges to Kala Amba and freight to Bilimora = Rs. 24,337.
Total ..	25,646·08	58,429	....	
Total, 1920-21 ..	12,077	30,703	....	

Although the prices realised were inferior to those of the previous year, the working of the mill shows a bigger outturn and hence bigger profits for Government. The contractor has been given an extension for five years and it is hoped the outturn will go on improving year by year. There is little doubt that it will be more profitable to Government to work mills by contract if only contractors can be obtained.

The work turned out by the Government sawmills in Kanara was as under :—

Kind of material.	1921-22.						1920-21.					
	Kanara mill No. 1.	N. D. mill No. 2.	Kanara E. D.	Kanara C. D.	Kanara W. D.	Total.	Kanara mill No. 1.	N. D. mill No. 2.	Kanara E. D.	Kanara C. D.	Kanara W. D.	Total.
Teak sleepers (No.) ..	29,048	9,410	15,785	..	221	54,464	6,861	6,749	9,966	..	240	23,816
Junglewood sleepers (No.) ..	432	4,590	..	..	2,080	7,102	5,093	12,471	..	..	..	17,564
Other teak sawn material (C. ft.)..	4,235	10,505	9,390	..	4,898	29,028	15,481	8,843	20,743	5,210	19,120	69,397
Other junglewood sawn material (C. ft.) ..	711	5,004	..	6,135	..	11,850	..	8,843	..	..	..	8,843
Value of work done (Rs.) ..	1,57,882	1,26,555	19,018	9,202	10,946	3,23,603	84,946	96,153	44,579	7,814	28,758	2,62,250
Charges including running of mill stores and depreciation at 10 per cent. (Rs.) ..	91,266	1,29,999	7,633	13,450	9,367	2,51,715	67,634	94,332	18,962	18,666	26,319	2,25,913
Net income (Rs.) ..	66,616	—3,444	11,385	—4,248	1,579	71,888	17,312	1,821	25,617	—10,852	2,439	36,337

The system of estimating the revenue and expenditure of the mills varies very much, and steps are now being taken to standardise a system.

The services of a Saw Doctor were engaged during the year and this it is hoped will result in improvement in outturn as well as a saving in charges on account of saws.

(ii) Purchasers.

The outturn of major and minor forest produce removed by purchasers and consumers is shown below :—

Circle.	Year.	Major produce.				Minor produce.			
		Timber.		Fuel.		Bamboos.	Grass and Grazing.	Other minor produce.	Total.
		Cft. in thousands.	Value.	Cft. in thousands.	Value.				
			Rs.		Rs.	Rs.	Rs.	Rs.	Rs.
Northern ..	1921-22 ..	1,621	20,52,263	4,749	16,851	48,390	91,365	31,875	1,71,630
	1920-21 ..	1,788	20,70,780	3,973	12,952	32,429	79,413	40,533	1,52,375
Central ..	1921-22 ..	791	4,32,781	3,035	67,208	9,338	2,99,619	36,611	3,45,559
	1920-21 ..	1,046	3,69,100	3,472	70,750	14,282	2,62,666	37,010	3,13,958
Southern ..	1921-22 ..	919	3,41,086	4,652	1,81,721	54,903	63,624	44,286	1,62,813
	1920-21 ..	1,119	4,24,515	4,419	1,49,202	48,280	58,112	55,083	1,61,474
Sind ..	1921-22 ..	96	98,015	18,139	3,76,428	..	25,437	54,016	79,453
	1920-21 ..	98	1,07,624	17,479	3,42,422	..	43,594	44,368	87,962
Total ..	1921-22 ..	3,427	29,24,145	30,575	6, 42,208	1,12,631	4,80,036	1,66,788	7,59,455
	1920-21 ..	4,051	29,92,019	29,343	5, 7 5,325	94,991	4,43,784	1,76,994	7,15,769
Difference ..		−624	−47,874	+1,232	+66,883	+17,640	+36,252	−10,206	+43,686

With the general trade depression and the tendency of prices of timber and fuel to fall, the lower prices for coupes sold standing were inevitable, although Sind and the Central Circle can point to an increased revenue from this source. The effect of the trade depression was most severely felt in the Southern Circle where coupes in some cases failed to sell though fuel coupes in Karwar Range and in Belgaum Division sold fairly well. In the Northern Circle shortage of waggons and the inferiority of some of the gurcharan coupes of Thana were also responsible for the decrease. The decrease in the value of minor produce in Sind, due to hill cattle not coming down to the forests for grazing as usual owing to sufficient fodder being available in the hills, was counterbalanced by more revenue from grass and grazing in the Central Circle partly owing to enhancement of grazing fees in Satara and the opening up of certain forests to sheep and goat grazing and partly to the influx of professional graziers from Malwa. Increased seigniorage rates for Bamboos and recovery of arrear grazing fees were responsible for the increase in the Southern Circle, though there was a heavy decrease in the Revenue from other minor produce through lack of demand.

(iii) Rights, Privileges and Free grants.

The estimated quantity and value of forest produce removed under this head is shown below :—

Circle.	Agency.	Major produce.				Minor produce.			
		Timber.		Fuel.		Bamboos.	Grass and grazing.	Other Produce.	Total.
		Cft. in thousands.	Value.	Cft. in thousands.	Value.				
			Rs.		Rs.	Rs.	Rs.	Rs.	Rs.
Northern	C ..	..	..	6,168	3,22,000	10,886	3,12,000	28,705	3,51,591
	F ..	22	11,424	..	..	289	..	1,513	1,802
Central	C ..	..	..	516	22,641	15	10,883	4,409	15,307
	F ..	30	11,678	3	344	536	..	258	794
Southern	C ..	300	72,000	3,042	6,46,353	15,000	3,00,387	1,80,000	4,95,387
	F ..	30	9,468	59	959	607	14,658	781	16,046
Sind ..	C ..	..	..	86	1,001	..	2,529	..	2,529
	F ..	6	545	13	127	..	7,979	..	7,079
Total, 1921-22 ..	C ..	300	72,000	9,812	9,91,995	25,901	6,25,799	2,13,114	8,64,814
	F ..	88	33,112	66	1,430	1,432	21,737	2,552	25,721
Total, 1920-21. ..	C ..	301	72,069	9,952	9,89,246	27,100	6,66,725	2,22,326	9,16,151
	F ..	93	24,922	57	579	1,659	36,361	501	38,521

C=Concessionists. F=Free grantees.

There are hardly any rights, and Rs. 22,204 paid to Khots as khoti shares in Kolaba were the only important item of expenditure under this head. The privileges are regulated by local rules and codes.

(*c*) OUTTURN AND SOURCES OF FOREST PRODUCE.

The outturn from all sources is given below :—

Circle.	Year.	Major Produce.			Minor Produce.		
		Timber, c. ft. in thousands.	Fuel, c. ft. in thousands.	Sandalwood.	Bamboos.	Grass and Grazing.	Other.
				Rs.	Rs.	Rs.	
Northern	1921-22 ..	2,119	11,768	100	59,873	4,03,509	62,104
	1920-21 ..	2,079	10,709	41	44,529	4,82,353	77,633
Central	1921-22 ..	835	4,066	1,258	9,889	3,10,493	52,267
	1920-21 ..	1,065	4,848	896	14,668	2,68,350	76,832
Southern	1921-22 ..	2,542	11,719	80,663	70,836	3,78,707	2,27,867
	1920-21 ..	2,635	10,801	61,445	64,785	3,79,287	2,39,490
Sind	1921-22 ..	117	21,640	....	....	35,045	55,960
	1920-21 ..	137	19,696	....	....	61,920	44,601
Total ..	1921-22 ..	5,613	49,193	82,021	1,40,598	11,27,754	3,98,198
	1920-21 ..	5,916	46,054	62,382	1,23,922	11,91,810	4,38,556
Difference		−303	+3,139	+19,639	+16,676	−64,056	−40,358

In all 2,299,299 animals were allowed to graze in the forests during the year, including 1,896,719 buffaloes, cows and bullocks, 385,914 sheep and goats, 1,316 camels and 15,350 other animals ; of which 609,367 were allowed free and the rest on payment of fees ; as against 2,347,411 in all and 738,662 free in the previous year.

The total expenditure on management of state forests was :—

	Rs.
Northern Circle	4,42,148
Central Circle	1,12,288
Southern Circle	14,42,213
Sind Circle	1,45,507
Total ..	21,42,156

CHAPTER V.

FINANCIAL RESULTS.

The revenue and expenditure of the year compare with those of the previous year and the average of the previous quinquennium as follows :—

Circle.	Year.	Revenue.	Expenditure.			Surplus.	Percentage of surplus to gross revenue.
			A	B	Total.		
		Rs.	Rs.	Rs.	Rs.	Rs.	
Northern ..	1921-22 ..	25,65,574	4,75,231	6,72,302	11,47,533	14,18,041	55·3
	1920-21 ..	25,34,974	4,47,648	6,64,991	11,39,639	13,95,335	55·
	Average ..	23,06,909	3,21,783	4,50,450	7,72,233	15,34,676	66·5
Central ..	1921-22 ..	9,67,899	1,39,733	6,30,620	7,70,353	1,97,546	20·4
	1920-21 ..	9,08,323	1,54,320	5,66,237	7,20,557	1,87,766	20·7
	Average ..	9,76,577	1,39,814	4,86,068	6,25,882	3,50,695	35·9
Southern ..	1921-22 ..	29,48,053	14,45,147	7,58,133	22,03,280	7,44,773	25·3
	1920-21 ..	22,10,747	15,60,642	6,34,382	21,95,024	15,723	·7
	Average ..	25,41,071	13,52,957	4,54,419	18,07,376	7,33,695	28·9
Sind ..	1921-22 ..	8,11,544	1,45,507	2,84,175	4,29,682	3,81,862	47·1
	1920-21 ..	6,83,113	89,034	2,54,565	3,43,599	3,39,514	49·7
	Average ..	6,31,500	44,270	1,99,194	2,43,464	3,88,036	61·3
General Direction and Bombay Forest College ..	1921-22 ..	4,063	39,989	1,41,684	1,81,673	−1,77,610	
	1920-21 ..	392	84,706	1,14,128	1,98,834	−1,98,442	
	Average ..	7	334	25,824	26,158	−26,151	
Utilization ..	1921-22 ..	5	5,943	11,438	17,381	−17,376	
	1920-21 ..	....	5,824	27,905	33,729	−33,729	
	Average ..	....	94	1,816	1,910	−1,910	
Total Presidency ..	1921-22 ..	72,97,138	22,51,550	24,98,352	47,49,902	25,47,236	34·9
	1920-21 ..	63,37,549	23,69,174	22,62,208	46,31,382	17,06,167	21·9
	Average ..	64,56,064	18,59,252	16,17,771	34,77,023	29,79,041	46·1
Difference between 1921-22 and 1920-21 ..		9,59,589	−1,17,624	2,36,144	1,18,520	8,41,069	

N.B.—The above figures are exclusive of revenue and expenditure on account of famine fodder.

The total gross revenue increased by 9·6 lakhs and the surplus by 8·4 lakhs for which the Southern Circle (with an increase of 7·4 under gross revenue and 7·3 under net revenue) is mainly responsible. This increase in the revenue of the Southern Circle cannot however be taken as an indication of a prosperous year in that circle, being chiefly due to the recovery of large outstandings; though part of the increase is due also to larger supplies of sleepers and fuel to the Railways and to disposal of old stocks of timber.

Sind contributed 1·3 lakhs to the increase under gross revenue; as it had, notwithstanding the slump in prices of timber and fuel, a record revenue of 6·8 lakhs during the year.

For the increase in expenditure Sind with an increase of ·8 lakh and the Central Circle with ·5 lakh are mainly responsible. The increase under establishments is due to revised rates of pay for the protective and clerical establishments and increased rates of permanent travelling allowance.

The hopes entertained in the last report of a speedy recovery of the financial position have unfortunately not been fulfilled; and with the world-wide depression in trade and the slump in prices there is no ground for hoping for such a recovery in the immediate future. Gradual improvement is however expected, especia ly with the introduction of mechanical transport and the completion of the various schemes for concentrated exploitation now in hand. Efforts are also being made to meet the requirements of such large consumers of timber as the Railways and the Bombay Development Department direct, and this is also expected to have a beneficial effect upon the revenue.

The sources of revenue and the heads of expenditure are analysed and compared in the following statement:—

Sources.	General Direction, Bombay Forest College and Utilization Circle.	Northern Circle.	Central Circle.	Southern Circle.	Sind.	Total.		Increase or decrease.
						1921-22.	1920-21.	
RECEIPTS.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs
Timber (Ia and IIa) ..	228	23,08,784	4,34,140	20,69,906	1,01,647	49,14,705	42,37,900	+6,76,805
Firewood and Charcoal (Ib and IIb).	..	19,766	96,872	6,53,689	5,71,046	13,41,373	9,91,373	+3,50,000
Bamboos (Ic and IIc) ..	..	48,698	9,338	55,330	..	1,13,366	95,162	+ 18,204
Sandalwood (Id) ..	..	184	1,760	17,812	..	19,756	62,382	— 42,626
Grazing and fodder grass (IId).	..	91,365	2,99,703	63,790	24,856	4,79,714	4,43,784	+ 35,930
Other produce (Ie and IIe) ..	..	38,687	47,596	44,557	57,734	1,88,574	2,60,669	— 72,095
Drift and confiscated forest produce (III).	..	498	1,951	223	352	3,024	12,065	— 9,041
Forest not managed by Government (IV).	..	2,545	7,885	5	..	10,435	11,133	— 698
Miscellaneous (V) ..	4,440	59,072	70,335	45,154	56,844	2,35,845	2,23,081	+ 12,764
Refunds ..	—600	—4,025	—1,681	—2,413	—935	—9,654	....	— 9,654
Total Revenue ..	4,068	25,65,574	9,67,899	29,48,053	8,11,544	72,97,138	63,37,549	+9,59,589
EXPENDITURE.								
A.—*Conservancy and Works.*								
Timber, etc., extracted by Government Agency (I).	1,793	1,68,243	23,063	10,41,576	1,01,803	13,36,478	12,74,516	+ 61,962
Timber, etc., extracted by consumers and purchasers (II).	..	30,674	19,355	8,909	328	59,266	71,498	— 12,232
Drift and confiscated forest produce (III).	..	32	32	546	..	610	244	+ 366
Forest not managed by Government (IV).	..	....	..	3	..	3	....	+ 3
Leased forests (V) ..	..	19,850	25,854	50	..	45,754	39,815	+ 5,939
Stores, Tools and Plant (VI)..	5,891	34,454	3,029	24,563	1,499	69,436	83,956	— 14,520
Communications and Buildings (VII).	1,382	1,36,223	21,169	2,53,967	17,287	4,30,028	5,16,276	— 86,248
Organization and Improvement (VIII).	34,530	57,586	19,772	84,575	13,971	2,10,434	2,79,158	— 68,724
Miscellaneous (IX) ..	2,336	28,169	27,459	30,958	10,619	99,541	1,03,711	— 4,170
Total A. Conservancy and Works.	45,932	4,75,231	1,39,733	14,45,147	1,45,507	22,51,550	23,69,174	—1,17,624

Sources.	General Direction, Bombay Forest College and Utilization Circle.	Northern Circle.	Central Circle.	Southern Circle.	Sind.	Total. 1921-22.	Total. 1920-21.	Increase or decrease.
B.—*Establishments.*	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Salaries (I) ..	1,21,061	5,58,030	5,39,700	6,35,855	2,29,966	20,84,612	19,30,700	+1,53,912
Travelling allowances (II) ..	20,691	87,644	71,695	99,456	37,394	3,16,880	2,45,148	+71,732
Contingencies (III) ..	11,370	26,628	19,225	22,822	16,815	96,860	86,360	+10,500
Total B. Establishments ..	1,53,122	6,72,302	6,30,620	7,58,133	2,84,175	24,98,352	22,62,208	+2,36,144
Total Expenditure ..	1,99,054	11,47,533	7,70,353	22,03,280	4,29,682	47,49,902	46,31,382	1,18,520
Surplus, 1921-22 ..	−1,94,986	+14,18,041	+1,97,546	+7,44,773	+3,81,862	+25,47,236	....	....
Surplus, 1920-21 ..	−2,32,171	+13,95,335	+1,87,766	+15,723	+3,39,514	....	+17,06,167	..
Difference ..	−37,185	+22,706	+9,780	−7,29,050	+42,348	..	....	+8,41,069

The revenue and expenditure of the year are further analysed as follows :—

Classes.	General Direction, Utilization Circle and Bombay Forest College.		Northern Circle.		Central Circle.		Southern Circle.		Sind.		Total.	
	—	Percentage.	—	Percentage.	—	Percentage.	—	Percentage	—	Percentage.	—	Percentage.
Revenue.	Rs.		Rs.		Rs.		Rs.		Rs.		Rs.	
Major Produce ..	228	5	23,28,734	91	5,32,772	55	27,41,407	93	6,72,693	83	62,75,834	86
Minor Produce ..	..	..	1,78,750	7	3,56,637	37	1,63,677	6	82,591	10	7,81,655	11
Miscellaneous ..	4,440	95	62,115	2	80,171	8	45,382	1	57,195	7	2,49,303	3
Refunds ..	−600	..	=4,025	..	−1,681	..	−2,413	..	−935	..	−9,543	..
Total ..	4,068	..	25,65,574	..	9,67,899	..	29,48,053	..	8,11,544	..	72,97,138	..
Expenditure.												
Extension and constitution.	..	..	13,234	3	1,591	1	2,291	..	..	..	17,116	..
Improvement ..	..	..	1,76,653	37	35,738	25	3,36,252	23	29,897	21	5,78,577	26
Exploitation ..	5,176	75	2,57,175	54	74,945	54	10,75,647	75	1,04,992	72	15,17,898	68
Miscellaneous ..	1,765	25	28,169	6	27,459	20	30,958	2	10,618	7	95,969	4
Total ..	6,941	..	4,75,231	..	1,39,733	..	14,45,148	..	1,45,507	..	22,12,560	..
Forest College ..	..	..	..	..	..	..	..	..	..	..	38,990	2
Total A. ..	..	..	..	..	..	..	..	..	..	..	22,51,550	..
Administration ..	88,823	..	46,574	7	°48,680	8	50,328	7	42,581	15	2,76,986	11
Executive ..	..	..	2,42,957	36	1,53,229	24	2,87,605	38	97,740	34	7,81,531	31
Protective ..	..	..	3,82,771	57	4,82,711	68	4,20,200	55	1,43,854	51	13,75,536	55
Total ..	88,823	..	6,72,302	..	6,30,771	..	7,58,133	..	2,84,175	..	24,34,053	..
Forest College ..	..	..	..	..	..	..	..	..	..	..	64,299	3
Total B. ..	..	..	..	..	..	..	..	..	..	..	24,98,352	..

The outstandings on account of revenue at the commencement and close of the year were :—

	On 1st April 1921. Rs.	On 31st March 1922. Rs.
Northern Circle	2,65,407	1,64,264
Central Circle	14,393	4,085
Southern Circle	14,59,312	11,22,985
Sind Circle	2,22,994	2,22,953
Total ..	19,62,106	15,14,287

Outstandings of Revenue amounting to Rs. 10,835 were written off as irrecoverable.

The outstandings on account of contractors and disbursers were as follows:—

	On 1st April 1921.	On 31st March 1922.
	Rs.	Rs.
Northern Circle	32,779	11,384
Central Circle	1,385	1,754
Southern Circle	5,59,304	4,94,866
Sind Circle	55,519	52,853
General Direction Division and Bombay Forest College.	....	1,46,316
Total ..	6,48,987	7,07,173

Irrecoverable advances amounting to Rs. 700 were written off.

CHAPTER VI.

RESEARCH AND EXPERIMENTS.

Research.—No research work was carried out, nor is likely to be carried out, until the necessary facilities are provided. To expect Divisional Forest Officers to do research work of any value is out of the question ; whole time officers are imperatively needed. Both Burma and the United Provinces have three research officers each, dealing with sylviculture, working plans and utilization respectively ; but in this Presidency even the post of Utilization Conservator has been abolished. The result is that important working plans have to be drawn up and engineering schemes proposed, based on data *which are little more than guess work.* That the most may be made of the forest resources of the presidency it is essential that research work should be going on continuously and that all plans for development and exploitation should be based on its results. It is to be hoped that this matter will receive the early and earnest attention of Government. The want of Working Plans Officers is particularly keenly felt and many of our most valuable forests are now being worked on a hand to mouth system, for want of officers capable of revising the out of date working plans.

Experiments.—In Sind *Prosopis glandulosa* seedlings continued to thrive in all nurseries in Sukkur and in some cases spread naturally to adjoining forests. Seed sown in sandy places did not however germinate. Sticks of Mysore brood lac grown on *shorea talura* from the Bangalore Institute of Science were tried on *babul* in Hyderabad Division with no results in the case of the first two consignments tied by the Range Forest Officers ; but the last consignment tied by the Divisional Forest Officer himself promises to be successful. Attempts at propagation in the Virand and Khokhar forests on both *babul* and *ber* as hosts were attended with no marked results. The grass *Andropogen Jwarancusa* (Jones) locally known as Kuttan was tested by the Forest Chemist at Dehra Dun and reported as yielding an oil of no great commercial value. The wood of *Capparis aphylla* locally known as Kirir was tested for golf club heads and shafts at Sialkot but found too brittle.

In the Northern Circle spineless cactus of the cochineal and burbank varieties was introduced at the suggestion of the Collector of the Panch Mahals, Mr. Beyts, in some coupes in Godhra and promises to succeed and may prove a valuable source of cattle fodder in times of fodder scarcity. Experiments are in hand to determine the yield of gum per tree in 12 months from "*Sterculia Urens.*" Plantations of *Bombax Malabaricum* are to be started on behalf of the Guzerath Islam Match Manufacturing Co., which removed during the year 12,500 c.ft. of this wood from Government forests paying a nominal royalty of Rs. 172 in all and which finds it difficult to secure a steady supply of this wood. The Company is to contribute Rs. 300 to the plantations annually.

Tarwad cultivation.—The fall in the market for tannins may make it inadvisable to go on with the cultivation of this plant for the present. Experience gained in the last few years in the three presidency circles however shows that given an average rainfall, properly distributed, of 15·20 inches, the raising of the plant from seed is not difficult. The 1919-20 plantations in the Panch Mahals have for instance attained a height of 2′-6″ to 5′, though in certain other cases want of sufficient rain spoiled results.

In the Central Circle experiments with coppicing Anjan seem to show that the best results are obtained with healthy vigorous stools if cut 6″ from the ground, while with over-mature and hollow trees 1′6″ is the height indicated. Attempts to raise Anjan seedlings by breaking up the soil (by ploughing or otherwise) and sowing seed have not so far yielded encouraging results : a profuse crop of seedlings comes up but is all destroyed by the hot weather. Experiments in mulching teak seedlings, by working up the soil round them, and by providing varying degrees of shade are in hand in East Khandesh but no conclusive results seem to have been yet reached. Two babul coupes were given out for cultivation in the same division under agri-cum-forestry agreements for a five year period. Results are awaited. In Poona an attempt was made to get rid of *lantana* cheaply and even profitably by pressing it into bales for convenience of handling and selling it for kindling wood. The attempt however did not come to much as the press, owing to missing parts, could not be worked. The attempt might be worth repeating with a better press. Some experiments in making charcoal in evergreen forests were made in Satara, with results that are economically promising, the lowest net profit on one of the sample acre plots being Rs. 43.

In the Southern Circle teak plantations at Taltot and Nisalnir were sown with a catch crop of mustard, sesamum and hemp, which yielded a profit of Rs. 250. In Dharwar-Bijapur an application of Atlas solution killed the lantana plants treated, but regeneration from latent seed immediately succeeded. Experiments in timber dragging referred to in the last report could not be continued for want of proper tackle. The work of clearing grazing grounds was vigorously continued in E. D. Kanara and 70 families of gowlies are now in residence and the prices of butter and ghee have materially decreased in the local bazars. Burning of piled up brushwood as in Thana has been carried out with great benefit to the teak seedlings in compartment 30 of C. D. Kanara. In S. D. Kanara two plots of casuarina out of three planted in 1920-21 are still growing well without being watered ; another acre is being planted 6′ × 6′ and treated in the same way. This method succeeds only in specially favourable circumstances however.

Mechanical transport.—An experiment in mechanical transport carried out in the Khanapur Range of Belgaum Division during the year proved a complete failure. Firewood from one of the coupes was brought down by bullock carts to a collecting depot and from this was transported to Gunji station, a run of 4½ miles, in trailers drawn by a petrol driven autohorse. But the autohorse, though driven by a man specially sent down by the firm for the purpose, was continually getting out of order and even when running without trouble failed to haul more than 2½ tons of load, instead of the 5 or 6 tons expected. The consumption of petrol and overhead charges also were so high that the cost of transport worked out to a rate four times as high as that for bullock carts ; and the autohorse and trailers had eventually to be returned to the Bombay firm. The following conclusions were reached as a result of the experiment :—

(1) A petrol driven form of tractor is unsuitable owing to high cost of fuel and to the fact that it requires much expert attention and supervision which is not available in an out-of-the-way jungle tract.

(2) The tractor should have a large reserve of power and be capable of hauling a heavy load up a steep hill. The autohorse failed badly on the hills.

(3) The wheels of the tractor and trailers should have rubber tyres, otherwise the cost of keeping the road in repair will be very high.

What is required is a high horse powered steam driven tractor run on wood fuel.

UTILIZATION.

A short summary of the work done by the Utilization Circle may be conveniently given here.

General.—This Circle existed only in name for a great part of the year, as there was no separate officer in charge of it and the Chief Conservator held charge of the same in addition to his own duties, except for a brief space of 2 months at the beginning of the year and about 7 weeks towards the close of the year ; during the former of these periods the Conservator's time was almost exclusively devoted to famine fodder operations under orders of Government.

Messrs. Howard Brothers' Timber Agency.—The attached statement shows Messrs. Howards Brothers' transactions up to 31st March 1922. It will be seen that although the quantity of timber sold is very small the net realisation is as good as might have been expected. Owing to the great trade depression that prevailed during the year demand for timber was extremely dull and there was little buying for stock. In view of this and the conservative attitude of timber users towards any wood of which they have no previous experience, the results so far obtained may be regarded as satisfactory, especially with regard to Matti.

Industries.—Enquiries were received principally in connection with the establishment of match and paper factories. With regard to the former it was pointed out that the main difficulty lay in the collection of material as the woods available for the purpose are very scattered, making collection expensive. The Bombay Presidency is not a suitable field for the match industry.

A Bombay firm proposes to utilise the grasses available in West Khandesh for the manufacture of paper pulp. It was pointed out in this case that the company's requirements could be fully met under certain conditions. The scheme has been investigated by Mr. R. W. Sindall of Messrs. Sindall and Bacon, London, and an application for the necessary concessions is now before Government.

Transport of forest material.—Constant complaints were received from the Northern Circle contractors regarding shortage of waggons on the B. B. &. C. I. Railway. Representations were made to the Railway authorities in this connection and it is hoped that the situation will improve.

Famine fodder operations.—One hundred and fifty four lakhs of lbs. of grass was collected and distributed to various stations and the operations for the famine season 1921 brought to a close. A report regarding these operations has already been submitted to Government. The storage for the year had to be cut down from 175 to 135 lakhs owing to financial stringency.

Forest Museum for Bombay.—Space was secured for a Forest section in the Prince of Wales Museum and a collection of exhibits from Bombay and other provinces placed therein. The museum is being formed mainly on commercial lines with a view to give the public an idea of the forest resources of India and their commercial possibilities.

Results of Messrs. W. W. Howard Bros, Transactions upto 31st March 1922.

Description of timber.	Shipped during 1921-22.		Shipped during 1920-21.		Total.		Sold during 1921-22.		Sold during 1920-21.		Total.		Net proceeds of sale.	Rate per per ton.	All charges from Dandeli to London. Average for all consignments per ton.	Net Amount realised per ton.
	Tons.	cft.	Tons.	cft.	Tons.	cft.	Tons.	cft.	Tons	cft.	Tons.	cft.	£. s. d.	£. s.	£ s.	£. s.
Teak ..	116	29·75	344	7·30	460	37·05	46	42·5	..		46	42·5	1,422 2 10	30 7 1	8 10 0	21 17 1
Matti ..	188	4·42	1	31·66	189	36·08	17	31	..		17	31	710 6 11	40 6 4	8 10 0	31 16 4
Blackwood ..	18	2·86			18	2·86	3	4·5	..		3	4·5	69 17 11	22 0 9	8 10 0	13 10 6
Honne ..	..		1	30·85	1	30·85	..		..		..		....	..	..	..
Total ..	332	37·03	347	91·81	670	6·84	67·28		..		67·28		2,202 7 8	..	..	..

CHAPTER VII.

ADMINISTRATION.

The office of the Chief Conservator of Forests was held by Mr. W. E. Copleston from 1st April 1921 to 25th March 1922, and thereafter till the close of the year by Mr. D. A. Thomson, who also held charge of the Utilization Circle from 1st April 1921 to 27th May 1921 and again, from 27th January 1922 to 24th March 1922, the charge during the interval being held as an additional charge by Mr. Copleston.

The circle charges were held throughout the year by—

Mr. G. E. Marjoribanks	.. Northern Circle
Mr. E. M. Hodgson	.. Central Circle
Mr. A. G. Edie	.. Southern Circle
Mr. H. L. Newman	.. Sind Circle

10 divisions changed hands twice or oftener and of the total number of 28, 14 were held throughout the year by Imperial officers, 1 for part of the year by an Imperial and for part of the year by a Provincial officer and 13 wholly by Provincial officers.

In no circle was there a whole time working plans officer and many of the Sub-divisional charges were practically vacant. The amalgamation of the old East and North Nasik divisions foreshadowed in the last report received Government sanction during the year. All the temporary forest officers, with the exception of Mr. F. D. Lewis, severed their connection with the department during the year on the termination of their contracts and in one case by resignation. The following retirements also occurred :

Mr. O. H. L. Napier.
Mr. V. d'P. Rebeiro.
Mr. S. S. Chandawarkar.
Mr. D. D. Anantbhat.
Mr. M. D. Jagtiani..

On the other hand some new recruits arrived, *viz.*, Messrs. T. K. Mirchandani and S. N. Kesarcodi, Probationary Extra Assistant Conservators (5th April 1921); Mr. M. G. Boutelle, Saw Doctor (18th November 1921) ; Mr. E. T. C. Vas, Probationary Assistant Conservator of Forests (26th August 1921) ; Messrs. H. C. Holmes (5th December 1921) and R. V. Alexander (11th December 1921), Forest Engineers ; Messrs. J. Walker (24th November 1921), H. P. W. Davis (11th December 1921), W. C. Walsh (13th December 1921) and J. Petty (11th December 1921), Assistant Conservators of Forests ; and Messrs. P. J. Rodrigues and J. N. Dutt were promoted to the Extra Assistant Conservators' grade.

The long deferred revision of permanent travelling allowance and of clerks' pay was sanctioned towards the close of the year. But the pay of peons still remains to be revised ; fresh proposals have been submitted to Government for this purpose and it is hoped sanction to them will be received early. Complaints are still received about the inadequacy of guards' pay and the consequent difficulty of attracting suitable men for the posts. The same difficulty no longer exists in the case of vacancies for clerks' posts owing to the revisions.

Training of Rangers.—Four new Ranger recruits arrived from Coimbatore during the year.

It is much to be regretted that financial considerations did not permit of the continuance of the Bombay Forest College which during its short existence, through the exertions of its principal Mr. J. D. Maitland-Kirwan, whose organising ability promised to make it a great success, turned out one class of 8 fully trained Rangers and completed the 1st year's instructions of the second batch of 16 students including one student from Goa sent by the Portuguese Government. Mr. Kirwan was assisted throughout by Mr. H. W. Starte, Senior Instructor, and by two Junior Instructors, Messrs. W. E. Pereira and D. G. Sane, who are now completing the training of the second batch of students.

With the Forest College the School Division was also abolished and its area distributed among the adjoining Dharwar-Bijapur, Belgaum, and E. D. Kanara Divisions.

Casualties and Punishments.

Casualties.	Northern Circle.	Central Circle.	Southern Circle.	Sind.	Total.	
					1921-22.	1920-21.
1. Retirements	19	27	5	8	59	26
2. Deaths	17	9	13	1	40	65
3. Resignations	35	22	13	29	99	73
4. Prosecutions	....	3	1	2	6	1
5. Degradations	13	....	8	4	25	29
6. Dismissals, removals, etc.	17.	96	53	15	181	99

Considerable reductions in subordinate establishments were also ordered and carried out during the last quarter of the year under the orders of Government

owing to financial stringency and the increased cost of establishments due to the revisions. The posts of 2 Foresters, 302 guards, 7 clerks and 44 peons from the permanent staff and of 54 Forsters, 175 guards, 17 clerks, 51 peons, 64 depôt officers and 27 other subordinates from the temporary staff were thus abolished. In addition, the posts of 6 clerks, 2 peons and 181 guards from the permanent establishment and 1 clerk, 5 Foresters and 1 other subordinate from the temporary establishment have been earmarked for reduction. The total reductions will result in an annual saving of Rs. 2,10,000 in recurring expenditure.

The health of the staff was generally good. The pre-mature death of Mr. K. D. Sathaye, one of the most promising Rangers in the Presidency, is much regretted, Mr. S. C. Advani, a Ranger in Sind, was murdered in his quarters at night. A criminal prosecution against a Forester under the Cattle Trespass Act in West Thana failed ; a guard in the Panch Mahals on the other hand was convicted under section 302, I. P. C. and sentenced to 10 years' imprisonment. In the Central Circle a Forester was sentenced to undergo 6 months' rigorous imprisonment and Rs. 50 fine for forgery, while another who was charged with extortion was acquitted and re-instated. The case against the Ranger, Mr. Dhole, ended in his acquittal on appeal.

No serious irregularities were disclosed by the inspection of Divisional and other offices ; and the work of the protective and clerical establishments is reported, with few exceptions, as satisfactory.

Civil suits.—There are 3 civil suits pending in the Northern Circle, 2 by contractors and the third in connection with the issue of a search warrant by a Ranger ; while in the Central Circle a suit by a coupe contractor was dismissed with costs ; the plaintiff however has appealed.

Inspection and Tours.—The year has to record the visit of the Honourable Mr. C. V. Mehta, Minister of Forests and Excise, to Kanara in April 1921 and to the Thana forests in March 1922. The Inspector General of Forests toured in Kanara in December 1921. The tour of the Consulting Forest Engineer, Mr. C. S. Martin, through some of the Northern Circle and Southern Circle forests in November and December has been already noticed. The schemes for development suggested as a result of the tour are now under consideration.

Land Revenue Administration.—In the Southern Circle the following forest mahals were administered by the local Range Forest Officers as ex-officio Mahalkaris : *viz.*, Virnoli, Kulgi and Dandeli in N. D. Kanara, Kirwatti and Bilki in E.D. Kanara and Khanapur in Belgaum, the Divisional Forest Officers being ex-officio Assistant Collectors for the forest mahals in their divisions. There is no evidence in the former division of settlers coming to take up land for cultivation : the tendency is rather the other way, the villages of Jamga, Kogulban and Harnoda being now deserted ; and consequently all forest labour, except for clearing compartment lines, has to be imported. Things are less gloomy in the E. D. Kanara mahals where there is a slight increase in the cropped area and the decrease in population has been arrested, the inhabitants being happy and on friendly terms with the Forest Department. In Belgaum the work of surveying and demarcating forest areas given out for cultivation in the forest mahals is still under progress. An agitation was set up in this division during the year for obtaining permission to recultivate " Hangami " kumries which have been afforested. The recent policy has been to resume " Hangami " kumri by exchanging it for good flat forest lands for cultivation on lease. Such land is not however available everywhere and a Ranger with special knowledge of the kumri tract is to be appointed to ascertain the requirements of each kumri village and find out whether there is sufficient cultivable land to take the place of the " Hangami " kumri areas resumed. These may have to be restored in a few cases.

In the Central Circle the administration of the Akrani Mahal by the Ranger, Mr. Bharucha, shows satisfactory results. Two deserted villages were repopulated during the year ; assessment increased from Rs. 3,132 to 3,391 and the area under cultivation from 12,402 to 15,373 acres ; tagai was recovered to the amount of over Rs. 9,000 together with Rs. 1,250 as interest, being nearly thrice that recovered in the previous year ; fresh tagai advances of over Rs. 3,000 were made ; 7 katcha shevadis and 4 chavadis were constructed and fair progress made with primary education and a weaving class started. The rainfall was satisfactory, the crops

good, the people's health fairly good and the Dhadgaon dispensary continued to do useful work. The work of acquiring and notifying as Reserved Forest the occupied lands in the Inam villages of Shindi and Sauria is in progress. The introduction of a more accurate method of fixing the assessment of lands than the present " Aut-bandi " method is under contemplation and in the meanwhile proposals to raise the present low rate of assessment from 4 to 8 annas have been submitted to the Collector.

The Raisingpur Estate also continued to be managed by the Forest Department through a Ranger, Mr. D. M. Gupte, under the Court of Wards. There is scope for considerable improvement of this Estate. Demarcation of the forest area is urgently required. Colonization is still slow (though three new villages were thrown open to it during the year), and is not likely to improve in spite of the liberal concessions allowed (*e.g.*, land rent-free for five years, tagai free of interest for five years, free forest and grazing privileges, etc.) unless permanency of tenure is guaranteed. The revenue from forest coupes shows a fall from 25 to 20 thousand ; and this with other reasons points to the necessity of early revision of the present working plan. Fire protection shows no sign of success; and early firing under control may have to be resorted to. The total forest revenue was Rs. 25,138, expenditure Rs. 12,635 and net surplus Rs. 12,503. The food crops were good but the mhowra seed crop failed. Schools languish for want of suitable teachers and lack of interest on the part of the Chieftain and his relatives. The climate continues to be very malarious ; and decent quarters for the Ranger and his staff are a crying need. It is hoped that funds will be provided for this purpose next year. The health of the Chief who suffers from melancholia is reported to have improved after a three months' stay in Poona under the treatment of Major Shaw.

Inforest settlements in the Khandesh Divisions do not show signs of thriving, and the same remark may be made of many of the Dalhi settlements in Kolaba (where they seem to have outlived their utility) as a result of the high wages which labour can command in the vicinity of Bombay ; it is worth considering whether they should not be resumed wherever possible and whether at any rate the very low assessment should not be revised.

In the Northern Circle inforest settlements have been more successful. Eighty more families were settled in the Talasri Mahals and the Divisional Forest Officer, North Thana, reports that there is a keen demand for land and that 150 more settlers should be provided for. In the Panch Mahals 581 acres were given to settlers in addition to 320 acres already given, the assessment collected being Rs. 1,714. In East Nasik, where there is a keen demand for land, lands unsuitable for forest are being given on annual leases, terminable at the will of the Department. The Consevator of Forests, N. C., is however doubtful if the labour problem will be solved in this way, since the settlers (*e.g.*, in Murbad and Vada in West Thana) do not take any important part in forest work.

The relations of the department with the Revenue and other departments continued to be cordial.

CHAPTER VIII.

GENERAL.

The period under report has been one of exceptional financial stringency, of high rates for all kinds of labour and of a complete slump in the timber market. The effect of this was markedly felt in the Southern Circle where many contractors failed. The results of the sales held in the monsoon go to show that the slump in prices is expected to continue.

As a result of these conditions expenditure had to be curtailed as much as possible. Expenditure on communications and buildings was cut down, and heavy reductions in establishments were inaugurated. At the same time schemes for intensive working were considered and elaborated with a view to the economical working of the less accessible forests of the Dangs, Peint, and Kanara. Lands whose maintenance under the control of the Forest Department was not productive of revenue owing to their scattered character and poor tree growth were marked out for transfer to the Revenue Department. The question of raising the rate of grazing fees was considered and certain proposals have been laid before the

Commissioners' Conference for discussion. As a result an increase in revenue is expected and this will materially improve the financial position of many of the divisions in the Central Circle.

Efforts were made to increase the supply of timber, sleepers and fuel to the Railways. The supply of Matti sleepers to the M. and S. M. Railway was begun. The supply of these would be greatly increased but for certain difficulties ; since the weight of the wood, its hardness and the fact that no saleable material can be cut from the side slabs make it uncertain, as pointed out by the Conservator of Forests, S. C., whether conversion in a sawmill would be profitable.

The traffic on the Alnawar-Dandeli Railway increased during the year from 6,000 to 10,350 tons, and a traffic in fuel and bamboos has now been started. The extension to Potoli has been sanctioned and this will open up the Aurli area and facilitate the transport of the Pardhani fuel.

It is the general experience in the Presidency proper that more profit results to Government by selling coupes standing than by working the timber out departmentally, provided there is a supply of contractors with the requisite capital and enterprise. This method of working is now being extended to the High Forests of the Southern Circle and is likely to be a success, though progress will be slow at first. Hitherto forest officers in Kanara have been so much occupied with the exploitation and sale of timber that they have had little time to devote to plantations and other improvements to the forests in their charge.

Agitation against the Forest Department in the Southern Circle decreased and the Conservator refers to the efforts of Mr. Basrur in Honawar taluka in forming village committees, selected by the villagers themselves, which submitted the names of offenders who had caused wilful destruction of forests, assessed the amount of damage and voluntarily offered the amount to the Forest Department. Mr. Basrur deserves the thanks of Government for his efforts in this behalf.

The Berad settlements in Belgaum district were very useful and the settlers cut 6 lakhs of cubic feet of running wood or nearly a quarter of the total fuel supply to the M. & S. M. Railway Co. Berads also did much useful work in the Dandeli sawmills in Kanara district.

The Government cart depots maintained in the Northern, Eastern and Western Kanara Divisions proved very useful both in the carrying of touring officers' kit and in doing miscellaneous work for Government.

The Southern Circle has to report an extensive seeding of bamboo in E. D. Kanara and the simultaneous appearance of an insect *Ochrophora montana* which became a serious nuisance to workers in the forests towards the close of the monsoon.

Remarks of Commissioners on Circle Reports.

Commissioner in Sind (Mr J. L. RIEU, C.S.I.) has no remarks to offer on the report of the Sind Circle.

Commissioner, N. D. (Mr. J. GHOSAL, C.I.E.) :—The noticeable features in this year's Forest administration as far as this Division was concerned were :—

(*a*) The marked diminution of forest fires in the Panch Mahals. If this continues, it would be worth while thoroughly analyzing the causes for more general application ;

(*b*) The completion of forest demarcation ;

(*c*) The slump in the value of timber and charcoal resulting in bankruptcy of several contractors, apart from decreased revenue to the department ;

(*d*) Clear-felling experiments.

The other items of routine administration presented no abnormal features and call for little remarks.

"2. A close study of the forest administration of successive years makes one rather dissatisfied. The general impression left on one's mind is that though this has such enormous possibilities, it is not being run as a business proposition. It is an old department. The methods adopted in the old days were very necessary and excellent, but many are probably out of date, yet because the department is

doing fairly well and bringing in some revenue there is a disinclination to spend more though this would bring in larger revenue in the end, lest there be a temporary decrease.

" The first necessity is research work under a separate staff, for sylviculture, utilization and working plans. This is such a self-evident proposition that the undersigned thinks it superflous to do more than point out the urgency of it. The routine work is so heavy, that if this research work be thrust on the normal staff, nothing will be done. For instance a tentative experiment is being made at clear felling. If this proves a success, the entire working plans will have to be modified. The revision of the working plans is also dependent on exact knowledge of the rate of growth and regrowth, and this knowledge is not complete, as it is a variable factor in different areas. Then as to Natural Regeneration. There is no doubt that in certain areas regeneration is spontaneous and in others nil. Only officers of the research department could properly solve this problem, a solution which would be invaluable. Similarly as to measures for aiding reproduction, these too are really in the embryo state and should be handed over to the research department. Though comparatively a new department, the agricultural department has done more in these lines than has the old Forest Department.

" The next thing that strikes one annually is what would appear to an outsider business man as the short-sighted policy of starving the department. Every year several important works are postponed for want of officers. The gurcharan settlement work has been postponed from year to year though most of the areas are ready for the axe. The preliminary working plan report in the Dangs was similarly held up for want of an officer. The needs for extra communication for aiding exploitation and increasing our revenue is admitted, yet the work proceeds but slowly. The Light railways still seem far off. When one reads that the large amount of Rs. 38 was spent in the whole division on lantana eradication, one cannot help wondering. It is also for serious consideration whether we could as pointed out by the Collector of Thana expect honest work from such low-paid subordinates, whether we are not encouraging corruption.

" Another point which requires serious handling is that of grazing fees. Admittedly the income under this head is totally inadequate. Wherever possible the fees are being increased, but this will not help much. The root of the trouble is that the majority of cattle get free grazing when they should not. This distinction of " forest " and " non-forest " village ought to be abolished, only this is not a simple affair. Since in many cases the entire grazing area of the village was originally incorporated into forest, some concession as to free grazing is necessary. On the other hand the presnt concession is far in excess of the original contribution by the villagers. A detailed enquiry seems necessary before the principles of a settlement could be evolved, but such an enquiry is imperative in the interests of efficient forest administration.

Commissioner, C. D. (Mr. H. L. Painter) :—

Forest area.

" There are no remarkable changes.

Demarcation.

" There was nothing worth noting under this head.

Working plans.

" The working plan for the Mahableshwar forests is being revised by the Conservator of Forests, Central Circle. But though he remarks that both new and revision work in West Khandesh division is urgent, as ' the revenue waste lands hitherto worked are nearly exhausted and a plan for the reserved forests is now required' , it seems that this work could not be undertaken for want of a whole-time officer.

" The unorganized forests in the Navapur and Nandurbar ranges were inspected by the Conservator of Forests, Central Circle, with the Divisional Forest Officer. A provisional scheme of working was decided upon by the Conservator of Forests.

" The Conservator of Forests, Northern Circle, reports that owing to the shortage of officers very little progress was made in the collection of data for the

badly needed revision of the Peint plans. In the West Nasik division some test trees were cut to furnish data as regards rate of growth but the results had not been worked out when the report was written.

Communications.

" In the Northern Circle, the work of improving the alignment of Goldari-Ozar road in West Nasik was commenced by the Assistant Forest Engineer posted to the Circle in January 1922 and 10 miles were done at a cost of Rs. 1,001. Progress was indifferent on account of dearth of labour.

" In the Central Circle a preliminary survey of Kothar-Chanseli bridle path (North Khandesh) was taken up by the Public Works Department. The alignment was still unsettled ; so construction was not begun.

" A sum of Rs. 8,000 was placed at the disposal of the Forest Department for constructing the Dara-Wadi road in North Khandesh, commenced the year before ; 10 miles were constructed at a cost of Rs. 7,007 which with 2 miles constructed last year makes 12 miles in all out of 30 miles required. The work was subsequently stopped in view of the need for retrenchment.

Forest offences.

" A statement showing the number and nature of forest offences in the Central Division is appended. The total number of offences rose from 6,804 to 6,910 but the rise is mainly due to the fact that the figures in last year's report were only for nine months. On the other hand the decrease in the number of ' fires ', of ' grazing without permission ' and ' other offences ' is distinctly satisfactory.

Number of forest offences committed in the Central Division during 1921-22.

District.	Injury by fire.	Unauthorised felling.	Grazing without permission.	Other offences.	Total.
East Khandesh	65	310	283	257	915
West „	74	577	175	50	876
North „	71	253	118	175	617
Poona	99	695	594	159	1,547
Satara	153	573	577	177	1,480
East Nasik	43	591	425	31	1,090
West Nasik	51	173	126	35	385
Total for 1921-22	556	3,172	2,298	884	6,910
Total for 1920-21	590	2,737	2,557	920	6,804

Cattle impoundings.

" In the Central Circle the figures show a slight increase and the Conservator, Central Circle, remarks that greater vigilance on the part of the subordinates partly accounts for the increase, but here again the fact that the previous year's figures were only for nine months would mainly account for the increase.

General remarks.

" The present Commissioner took over charge of the Central Division on 23rd March 1922, *i.e.*, practically when the year of the reports in question had ended, and he cannot offer any remarks based on personal knowledge of the working of forests during the year. He is glad to find that the exploitation of Peint forests which he had pressed for, as Collector of Nasik, has been begun and that the orders of Government in Government Resolution No. 3842 dated 19th May 1922 which sanctions the constitution of rabi numbers as reserved forest are in a fair way to have practical effect.

" 2. The Commissioner concurs in the remarks of the Collector of Nasik as regards the Nasik Forest Divisions which are the only forest areas in Central Division, covered by the Northern Circle report, and would invite attention to the observations of Mr. Maitland-Kirwan regarding the necessity of a whole-time forest officer for research work.

" 3. As regards the Central Circle, the chief problem of the Khandesh forests seems to be the carrying out of measures for protection from fires ; Mr. Hodgson

observes that the fire problem is still far from solution and that two big fires traversing an area of 50,000 acres occurred this year. One of the measures proposed is early firing to be resorted to in the cold season. The Revenue Department is enforcing communal responsibility by means of penal grazing fees where necessary.

"The grazing fees in Satara were doubled and brought in increased receipts without evoking any complaints ; the same has since been done in other divisions also.

"The experiments of charcoal-making tried in the Satara Division and of lantana pressing for transport to Poona as kindling material referred to in the Central Circle report seem to be worth further trial.

"The account given by the Conservator of Forests, Central Circle, of the administration of the Akrani Mahal and Raisingpur Estate is interesting and indicates steady progress. It seems desirable to press forward the introduction in the Akrani Mahals of the 'Autbandi' system or some other regular system of assessment instead of the present guesswork method.

"Both the reports give ample indication of progress in the working of the department despite inevitable handicaps resulting from the need of retrenchment and other causes."

Commissioner, S. D. (Mr. L. J. Mountford, C.B.E.) :—"As anticipated, the difficulties of extraction have increased and most of the profit is swallowed up before the logs reach the depôt under cost of labour and transport. The remedy lies in extending mechanical transport and no time should be lost in pushing on the Potoli-Dandeli Light Railway. Long time contracts where the contractor could lay down his own light lines are not possible in Kanara where the stand of timber is not good enough at present as second class timber seldom pays for extraction. Until the depression in the timber trade wears off we shall have to rely in the main on departmental extraction : owing to this depression cuttings were less than usual though better than last year. Contractors are difficult to obtain. Not only were lower prices obtained for the coupes that were sold standing, but many remained unsold for want of purchasers. Much still remains to be done to improve our communications before we can reduce the expenses of extraction.

"Under orders of Government, a departmental committee sat to inquire and report on the question of the working of the Alnawar-Dandeli Railway and other connected matters. The conclusions arrived at by the committee are before Government.

"2. Fires were less than last year (232·74 square miles against 625·77 square miles). The Conservator reports :—

> 'In the Mundgod and Bankapur-Hangal teak pole forests the local inhabitants appear to have decided that the closed coupes must be burnt also and, in spite of the wide protection belt surrounding them, by the middle of March the greater part of these coupes had been burnt in all the blocks except three.'

The Collectors will be asked to investigate this : possibly, some extension of grazing areas may operate as a check.

"The Forest Department under Mr. Copleston has been paying considerable attention to the improvement of grazing grounds and the success achieved has reduced the number of impoundings of cattle for illicit grazing to 6,223 in closed forests against an average of 8,520. Goat trespass has increased considerably in the Dharwar-Bijapur sub-division.

"3. *Forest offences.*—There has again been a fall in the total number of offences from 4,133 to 3,141 against an average of 4,851 of the past three years.

"4. Lantana is one of our great dangers. It takes possession when a coupe is felled or when cultivation is left fallow. At present no remedy has been discovered to eradicate this pest.

"5. Considerable attention has been paid to regeneration and it has been found that transplantation of seedlings, one year old, meet with more success than seed dibbling even in Kanara where the rainfall is good. Babul sowings in kuran coupes in Bijapur were not successful. I observed when Collector of Sholapur that five years' constant dibbling in kurans produced nothing at all and there is

little hope of success therefore in Bijapur. I consider that coastal plantations of casuarina should be increased whenever possible to provide seaborne fuel for Bombay in the near future. This I have personally arranged for in Ratnagiri where a survey of suitable areas has been undertaken and plantations have been started. It is satisfactory to note that 30·4 acres were added in the Western Division, an increase of 15 per cent. Casuarina is easy to grow and requires attention only for the first few years and matures rapidly.

"6. Fuel depôts for the heavy population on the Kanara coastal area are a difficult proposition. If the rate charged is higher than the cost of labour required to collect fuel there is a tendency for the poorer classes to loot the forests and to manufacture deadwood. If the rate is low, Government suffers. The Conservator quite rightly considers that townspeople have no right to be supplied with fuel below cost price, but the danger is that their wants would be supplied illicitly if we charged too much and the forest staff is too small to watch all roads night and day or to check each cultivator who has a right to gather deadwood and who may make constant journeys to and fro bringing in fuel nominally for his own use but in reality for illicit sale. I have raised the rate this year from As. 3-6 to As. 4-6 and the result will be watched and if possible the rate will be raised to 5 annas next year.

"7. Better management of the sawmills is reflected in their improved outturn. 54,464 teak sleepers were turned out against 23,816 last year and the total value of outturn of all kinds was $3\frac{1}{4}$ lakhs against $2\frac{2}{3}$ lakhs.

"Isolated sawmills are not satisfactory. They are wasteful in working and insufficient in output. What is required is one or possibly two sawmill centres where under expert management and supervision the most work can be secured and the least waste. There are many ways of cutting up a log whether into sleepers, planks or battens, and an expert can make the most of it, while if left to the ordinary mill foreman there is bound to be a great deal of waste. Care of saws will treble their life and will save broken teeth. I have always been in favour of locating the mills in one locality, whether at Alnawar, our rail head where there is space available, or at Marmugao. I see no reason why, if we had such a centre, threeplywood could not be taken up by a private firm or by Government in the vicinity of the mills. Casein, which is used for the cement, is readily obtainable in large quantities in India and the world's demand for threeply for packing cases, trucks, etc., is growing yearly. The improvements effected by the Chief Conservator in mill management have already shown excellent results.

"8. Where the outcry against forests has been largely manufactured by agitators and Government has devoted its attention to removing all possible grievances, too little attention has been paid to the valuable privileges which Government is giving to forest villages. It is estimated that such privileges have resulted in handing over free to cultivators over 12 lakhs worth of forest produce, a far larger sum than the net profits that Government has obtained from working the Kanara forests (Rs. 7,53,504). Free grants have also been made to the extent of Rs. 26,473 including remission of grazing fees. It is a question whether free grants should not be given more sparingly.

"9. *Financial results.*—The Conservator will be asked whether steps cannot be taken to reduce the large loss in the Central Division which was nearly half a lakh in the year against a loss of nearly a lakh in the previous year and in the Southern Division where the loss is half a lakh. The working of the Northern Division in the vicinity of the Railway shows a net surplus of nearly 6 lakhs against 1,41,731 last year. This reflects the highest credit on the forest officers concerned, especially in a year of depression and low prices.

"The year's profit is Rs. 7,53,504 against the previous year's meagre return of Rs. 6,434. This includes recovery of large outstandings.

"10. *Tarwad sowing.*—I think all expenditure under this head might well cease. The railway embankments and vacant land near stations are stocked with tarwad all over the Deccan and in the Karnatak. Tarwad near a Railway station will drive out of the market any tarwad that has a larger lead.

"11. *Grazing grounds.*—The Chief Conservator when Conservator, Southern Circle, took up the question of grazing grounds and owing to his and the present

acting Chief Conservator's initiative much has been done to improve the condition of grazing grounds which the villagers' neglect in the past had ruined. It is hoped that better provision of grazing grounds will, apart from the question of improving agricultural stock, also diminish intentional fires to promote early growth of young grass. It will be noticed that the expense that these most valuable operations have entailed has diminished the net profits for the year, but the money has been wisely spent.

"12. The damage by wild animals is considerable. Pig cause most harm and their destruction is a most difficult problem for which a Committee has been appointed. Systematic poisoning under supervision will destroy far more than shooting as pig are clever and are difficult to drive. Dr. Mann's experiments have shown that poisoning is cheaper and more effective. Cheetal shooting has been allowed in villages where it is proved that they do damage. The increase of pig is due to some extent to the destruction of their natural enemies, tiger and panther, and unless wholesale poisoning is undertaken by a special staff an increase of this most serious menace to agriculture must continue. A reference made to the Parel Laboratory on the subject of inoculation of pig with some sort of disease proved abortive as the pig is susceptible to diseases which would attack men.

"13. *General.*—The year's work reflects great credit on the Conservator and his Assistants. In these forests with their lack of communications and unhealthy conditions nothing but intelligent and unremitting work can achieve good results. The lack of response shown in applications for Rangers' posts is due to the very arduous duties of a Forest Officer's career. It is a lonely life and hard life and it is not made easier by persistent agitation in spite of earnest efforts on the part of Government to meet all legitimate grievances. This agitation in Kanara is dying down, and is suffering a death blow under the remedies prescribed by the Press Note, but it is no use prescribing remedies if they are not applied and the Forest Settlement Officer has been appointed to apply them. In the past the remedies that Government had discovered were not properly applied by the district staff; the action of the Forest Department was criticised when the remedy lay in the possession of the Revenue Department. This was partly due to the faulty records of the Forest Settlement Office and this in turn was due to a reduction of staff before all rights and privileges were duly recorded. In some cases rights recorded by the Forest Settlement Officer were not incorporated in the registers or were so vaguely recorded as to be meaningless and the villagers suffered. The concession of free bamboos for fencing which I proposed in 1919 has been widely availed of: improvement of grazing grounds is being carried out under the Chief Conservator's orders: sites of larger villages have been cleared of forest growth to promote more healthy surroundings, and strips have been freely given out round cultivation. Additional privileges have been given in strips under Rule 3 of the Kanara Privilege Rules as amended by Government Notification No. A—414, dated 7th April 1922. Soppu privileges have been extended. The Forest Settlement Officer's report is now before Government and his careful and detailed investigation has shown what is required. The chief agricultural want appeared to me to be the extension of Minor Forests, as so much of this near the coast was bare land. This matter has engaged Mr. Collins' serious attention and a very large increase of Minor Forest has been proposed. The recommendations he has made in this respect will, if sanctioned, reduce some of the profit yielding forest land, but the improvement to agriculture will more than make up for this loss. Where Forest and genuine agricultural interests conflict, the interests of the cultivators have been considered. Much of the agitation against the Forest Department comes from town dwellers on the coast who desire to secure their fuel at less than a fair price, although forests are remote from their homes. Spurious agitation of this nature is unaffected by a generous and liberal policy and I do not expect therefore that Mr. Collins' recommendation will cause all agitation in Kanara to cease; what I do expect is that real hardships will be reduced to a minimum.

"Efforts to increase the population of some of the healthier villages have resulted in eleven families settling in Jagalbet. Progress is slow and depopulation continues in villages inside the forests on account of lonely and unhealthy conditions and demand for labour outside. Real progress has been made in clearing village sites. Supa, Joida (two hamlets), Virnoli (three hamlets), Phansoli, Gavegali, Yellapur town and Manchikeri have had forest adjacent to the village site removed and Ulvi,

Sambrani, Mahime and Kot partly so. The Forest Settlement Officer made 54 assignments for clearance round cultivation and habitation. Of these 20 have been cleared, 14 have been partly done, 7 have been cancelled and the rest will be taken up next season. It remains to be seen whether the people will keep these areas cleared once lantana has taken charge.

" Now that the Engineering staff has been strengthened it is hoped that the problems of cheaper exploitation and extraction will be solved. Close touch must be maintained with the outside timber market with a view to following the demand and to introducing new timbers. Where communications are bad and cart transport is becoming more expensive and more difficult to obtain every year, it is hoped that lumber railways will be pushed on without delay. It is then and then only that big contractors can be expected to come forward to relieve the Forest Department of departmental exploitation, which curtails the time that the forest officer can spend on his own legitimate work, *viz.*, Conservancy and Regeneration."

Kolaba.—Selection of protected forests worth taking over by the Forest Department referred to at page 54 of the report.

" These are apparently the gurcharan lands referred to in the concluding portion of paragraph 2 of the Commissioner's review of the report for 1919-20. The Conservator is being requested to expedite the matter and report on it separately.

" 2. *Dalhi settlements.*—The Collector promises to take up this question next season. He is being asked to submit a special report on it on the completion of his enquiries.

" 3. *Forest offences.*—The decrease in the total number of offences has continued. It is gratifying to note that the remedies which have been applied as a result of the inquiries directed by the Commissioner in paragraph 1 of his review of the Administration Report for 1919-20 have borne fruit.

" 4. *Communal punishments.*—It is for the Collector to take suitable action in the cases referred to by him. He is being informed accordingly.

" 5. *Fuel depôts.*—The Commissioner has recently sanctioned increased rates of selling price at depôts, whereby it is hoped that the loss to Government on this account will be obviated.

" 6. As regards the remarks of the Collector about grazing fees, it is to be noted that the whole question of the revision of the existing Rules is to be considered in the Commissioners' next conference.

" The Collector's proposal to double the rates fixed under the present rules is before Government.

" 7. *The Collector's remarks about " khoti " privileges.*—Under clause 14 of the khots' kabulayat, they are allowed one-third of the net proceeds of all fellings made by Government in the forests, on condition that they protect the forest as directed by the Forest Department, maintaining servants for the purpose if necessary, and being pecuniarily responsible for any loss to the forest caused by their neglect. The old kabulayats contained a similar clause. The Commissioner does not know how the Forest Department satisfy themselves that khots have satisfactorily discharged their responsibility in this matter before making payment of the one-third amount. If this clause is retained in its present form, there should be systematic inspection of forests in khoti villages, not merely inspection before the cuttings commence, and a proper record of such inspections should be maintained. A Range Forest Officer cannot be expected to inspect forests in *all* khoti villages in his Range every year. But he can inspect a certain number every year, in addition to inspecting coupes due for cutting in that year. A programme of inspection should be prepared by the Divisional Forest Officer for each Range, so that the Range Forest Officer can inspect forests in all khoti villages within a period of three or four years and record to what extent the khots have discharged their duties. On this record the Divisional Forest Officer should decide whether a khot is entitled to the full one-third price of the fellings made by Government and issue a certificate of the kind mentioned by Mr. Gordon. Without such certificate the Treasury Officer should not accept the khot's bill. Much trouble would be saved if the khot were to pay a portion of the cost of Government establishment maintained for the protection of forests. Mr. Bhat (a representative of khots) informed the Commissioner recently that khots do not at present employ any watchmen to look after the

forests, but ask their servants or tenants to see that no illicit cuttings take place and to report such cuttings to them and to assist in extinguishing fires. This of course means that khots do nothing at present but pocket the one-third price of the fellings made by Government.

" 8. *Free grants.*—The Commissioner has separately made a proposal that the powers of making free grants should be restricted and has also made other suggestions to curtail the scope of the present standing orders regarding these grants. (This office No. F. O. R.-149, dated 6th September 1922, in reply to Government Resolution, Revenue Department, No. A. D.—68, dated 27th June 1922)."

A. G. EDIE,
Acting Chief Conservator of Forests,
Bombay Presidency.

APPENDICES.

FORM No. 51.—*Area of Reserved Forest, 1921-1922.*

Division.	Civil District or Territory.	Area on 1st April 1921.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1922.		No. and date of Notification of addition or transfer.	Remarks.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10
NORTHERN CIRCLE.									
Panch Mahâls ...	Panch Mahâls.	212,152	331	...		212,152	331	.....	
Surat ...	Surat ...	51,791	81	...	...	51,791	81	.....	
	Do. (Dángs leased).	211,795	331	...	...	211,795	331	.....	
	Násik Baragaon Dangs.	13,756	22	...	...	13,756	21	.....	
North Thána ...	Thána ...	221,350	346	...	(*a*) 15	221,335	345	(*a*) Transferred to West Thana, Area of Arnala plantation.	
West Thána ...	Do. ...	184,846	289	(*a*) 15 + 3 (*b*)	...	184,864	289	(*b*) A. Misc. 619 / 28-2-1921.	
East Thána ...	Do. ...	293,491	458	...	...	293,491	459	.....	
West Násik ...	Násik ...	211,212	330	...	...	211,212	330	.....	
East Násik ...	Do. ...	521,531	815	(*b*) 54	(*c*) 295	521,290	814	(*b*) S. 35-590 / 1-8-1921; S. 3511-1713 (D) / 17-8-1921; S. 35-11-7739 / 26-12-1921; S 35-11 9208; / 16-1-1922 (*c*) A Misc 2597; / 8-7-1921, A. Misc. 1053 A. / 22-3-1921; A. Misc. 2609 / 14-7-1921, S. 36-2-4006 / 8-10-1921.	
Ahmedabad ...	Ahmedabad	12,032	19	...	...	12,032	19		
	Total, Northern Circle.	1,933,956	3,022	57 (*a*) 15	295 (*a*) 15	1,933,718	3,021		
CENTRAL CIRCLE.									
East Khándesh ...	East Khándesh.	511,847	800	...	(*c*) 64	511,783	800	(*c*) 3949 29-12-1920, 2326 20-6-1921.	
West Khándesh ...	West Khándesh.	510,176	797	(*b*) 3	...	510,179	797	(*b*) 2168 / 17-9-1921.	
North Khándesh	Do.	556,279	869	(*b*) 875	(*c*) 29	557,125	871	(*b*) 1060 22-3-1921, 35-19-1667 30-8-1921, 35-9-9207 16-1-1922. 35-9 9216. 16-1-1922, (*c*) 35-5-A. 21-7-1921.	
Poona ...	Poona and Ahmednagar.	627,462	981	(*b*) 2,761	(*c*) 1,431	628,792	983	(*b*) 2596 8-7-1921, 35-13 8132 26-12-1921, 35-13-8133 26-12-1921, S. 35-13 1-8-1921, 36-2-1228 1-8-21 (*c*) 941-A 31-3-1921, 1636 30-4-1921, 2279 14-7-1921, 2213-A 12-10-1921, 36-13-6434 9-11-1921, 36-13-829 29-12-1921,	

FORM No. 51.—*Area of Reserved Forest, 1921-1922*—continued.

Division.	Civil District or Territory.	Area on 1st April 1921.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1922.		No. and date of Notification of addition or transfer.	Remarks.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10
CENTRAL CIRCLE—*concld.*									
Sátára	Sátára ...	454,202	710	67(*b*)	131(*c*)*	454,138	710	(*b*) 35-15-6777, 22-11-1921; 35-15-6777A. 23-11-1921.	
	Do. .. (leased)	468	1	...	...	468	...	(*c*) 36-15-2418, 23-8-1921; 321, 12-9-1921; 2723, 16-9-1921; 2891 and 2891 A.B.&C. 16-9-1921, 36-15-4003, 3-10-1921.	
Kolába ...	Kolába Ratnagiri.	288,211	450	(*b*) 4	...	288,215	450	(*b*) 1713, 29-4-1921.	
Nagar-Sholápur ...	Nagar and Sholápur.	443,553	696	...	(*c*) 398	445,155	695	(*c*) 1637, 28-4-1921; 2271, 13-6-1921; 2272, 13-6-1921; 36-15-7888, 16-1-1922.	
	Total, Central Circle.	3,394,198	5,304	3,710	2,053	3,395,855	5,306		
SOUTHERN CIRCLE.									
Kánara, N. D. ...	Kánara ...	215,267	336	36(*b*)	6(*c*) 775*	214,522	335	(*b*) S. 35-9-2793, 30-8-1921, S. 35-9-2805, 16-9-1921; (*c*) A. Misc. 1770, 12-5-1921, S. 36, 27-7-1921	* Correction as per Forest Settlement Register.
Kánara, E. D. ...	Kánara and Dhárwár.	363,158	567	...	4(*c*)	363,154	568	(*c*) A. Misc. 2126, 3-6-1921; S. 36-1-2671, 1921; S. 36-9-D, 12-9-1921	
Kánara, C. D. ...	Kánara ...	478,185	747	10,672*	123(*c*)	488,744	764	(*c*) A. Misc. 1773, 12-5-1921; S. 36-9-5265, 12-10-1921; S. 36-9-5270, 12-10-1921; A. Misc. 2901, 11-7-1921; S. 36-9-2991, 30-8-192; S. 36-9-8, 16-1-1921; S. 36-9-1929-D, 19-8-1921.	
Kánara, S. D. ...	Do. ...	419,725	656	...	1,181(*c*) 8,870†(*c*)	409,674	640	(*c*) A. Misc. 1029, 29-5-1921; A. Misc. 1753, 12-5-1921; A. Misc. 1030, 20-5-1921; A. Misc. 2397 & 2398, 13-6-1921; A. Misc. 1763, 12-5-1921; S. 36-769, 17-7-1921; S. 35-9-1051, 1-8-1921; S. 36-2356, 20-8-1921; S. 36-9-2357, 20-8-1921; S. 36-9-3229, 2-9-1921; S. 36-9-2800, 6-9-1921; S. 36-9-2823, 6-9-1921; S. 36-9-5175, 12-10-1921; S. 35-9-5970, 24-10-1921; S. 35-9-5993, 24-10-1921; S. 36-9-6895,6896, 16-11-1921; S. 36-9-6897, 16-11-1921; S. 36-9-6898, 16-11-1921; S. 36-9-6900, 16-11-1921; S. 36-9-D, 12-9-1921; S. 36-2580, 9-7-1921; S. 36-9-2887, 30-8-1921; S. 36-9-6901, 16-11-1921; S. 36-9-6902, 16-11-1921; S. 36-9-6903, 16-9-1921; S. 36-9-7146, 16-11-1921; S. 36-9-8090, 23-12-1921; S. 36-9-8099, 23-12-1921; S. 36-9-8101, 23-12-1921; S. 36-9-8102, 23-12-1921; S. 36-9-8252, 23-12-1928; S. 36-9-9076, 23-12-1921;	

FORM No. 51.—*Area of Reserved Forest, 1921-1922*—concluded.

Division.	Civil District or Territory.	Area on 1st April 1921.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1922.		No. and date of Notification of addition or transfer.	Remarks.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10
SOUTHERN CIRCLE—*concld.*									
Kánara, W. D. ...	Kánara ...	551,125	814	*16,389	67(c)	537,347	839	(c) A. Misc. 1771, 10-5-1921; A. Misc. 1768, 12-5-1921; S. 36-9-2485, 23-8-1921; S. 36-9-5183, 12-10-1921; S. 36-9-6889, 22-11-1921; S. 36-9-7461, 26-12-1921; S. 36-9-8873, 26-12-1921; S. 36-1, 8-7-1921; S. 36-9-10, 16-1-1922.	
Belgaum ...	Belgaum ...	428,467	670	9,529(b)	44(c)	437,952	684	(b) A. Misc. 1028 & 1042, 29-3-1921; S. 35-3-2888, 23-8-1921; S. 35-4-287, 21-7-1921; S. 35-4-2674, 21-7-1921; S. 35-4-2676, 21-7-1921; (c) S. 36-D-1345, 1-8-1921; A. Misc. 1752, 10-5-1921; S. 36-3-7852, 26-12-1921; A. Misc. 1772, 10-5-1921; S. 36-2-2873, 11-7-21.	
Dhárwár-Bijápur .	Dhárwár and Bijápur	316,025	494	107(b) 29,390‡	93(c)	345,429	540	(b) A. Misc. 350 & 352, 5-2-1921; A. Misc. 2003, 19-5-1921; S. 35-4-6762, 16-11-1921; S. 35-6-9758, 26-12-1921. (c) S. 36-4-1366, 17-8-1921; S. 36-4-5177, 12-10-1921; S. 36-4-5276, 12-10-1921; S. 36-4-8254, 26-12-1921; S. 36-6-2481, 26-12-1921; S. 36-4-8253, 6-1-1922. ‡ Transfer of Kalkeri Range from 1-7-1921.	
School Division, Dharwár.	Dhárwár and Belgaum.	81,233	127	...	*24(c) 29,390‡	51,819	81	(c) 36-4-8251, 10-1-1922; S. 36-4-5848, 18-10-1921; S. 36-6-7848, 26-12-1991.	+ Gained by accretion. (a) Reservation. — Lost by erosion. (b) Disforestment. (c) Recent kacha areas included in the Reserved Forest area but since declared Protected Forest and transferred to Form 51A.
Ratnágiri ..	Ratnágiri...	12,051	19	...	...	12,051	19	.....	
	Total, Southern Circle.	2,835,246	4,430	36,633 29,390‡	2,317 8,870† 29,390‡	2,860,692	4,470	‡ Transfer from one Division to another. † Transfer to 51A.	
SIND CIRCLE.									
Sukkur ...	Sukkur and Upper Sind Frontier.	219,217	343	...	−4,347 (c)8,036	206,834	323	As per Form No. 51-A.	* Error rectified being the difference between the area shown in Village Form IA and Form No. 51 of the past year.
Shikárpur ..	Do. ...	105,419	165	+2,415	−1,683	106,151	166	.....	
Lárkána ...	Lárkána and Nawábshah.	107,856	168	+4,643	−130 (c)3,655	108,714	170	Do.	
Hyderabad ..	Hyderabad, Karáchi and Nawábshah.	154,579	241	+3,080 *935	−2,919 (c) 2,700	152,975	239	Do.	
Karáchi ..	Hyderabad and Karáchi.	136,171	213	(a) 310 +1,305	(a) 3,684 −3,368	130,734	205	Do. A. Mix. 1991, dated 16-5-21	*Note.*—Area of 17,364 acres of kachas notified under Section 19 in the Karachi and Hyderabad Districts under Notification No. A. Misc. 1991, dated 16-5-21, No. S. 35-20 / 8570, dated 21-1-22, No. S. 35-1, dated 23-6-21 has already been included on award to the Forest Department; hence not added now. Similarly 11101 acres notified in Sukk r District have not been added.
	Total, Sind Circle.	723,242	1,130	12,688	−12,447 18,075†	705,408	1,108	†Tansfer to 51A.	
	GRAND TOTAL, PRESIDENCY.	3,886,642	13,886	53,088 29,405‡	17,112 29,405‡ 26,945†	3,895,673	13,900	‡ Transfer to 51A. ‡ Mere transfer from one Division to another.	

FORM No. 51-A.—*Area of Protected Forest, 1921-1922.*

Division.	Civil District or Territory.	Area on 1st April 1921.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1922.		No. and date of Notification of addition or transfer.	Remarks.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10
NORTHERN CIRCLE.									
Surat	Dángs (leased).	2,08,013	325	...	...	208,013	325		
	Násik-Baragaon Dángs.	1,267	2	...	...	1,267	2		
		2,09,280	327			2,09,280	327		
North Thána	Thána	95,476	149	...	28Ac.	95,448	149	S.36-18-2911 ; 30-8-1921 S. 36-2766 ; 23-8-1921 S. 36-18-9052 ; 26-12-1921 A. Misc. 2057 ; 3-6-1921.	
West Thána	Do.	64,613	101	...	...	64,613	101	S. 36-18 ; 16-9-1921 S. 36-18-9054 ; 26-12-1921	
East Thána	Do.	90,772	142	...	7	90,765	142	36-18-4993 ; 10-10-1921 A. Misc. 1680 ; 30-5-1921	
West Násik	Násik	60,134	94	...	...	60,134	94		
	Total, Northern Circle.	520,274	813	...	35	520,239	813		
CENTRAL CIRCLE.									
Sátára	...	658	1	...	1	657	1	36-15-2418 ; 28-8-1921	
Poona	...	7,139	11	...	...	7,139	11		
Kolába	...	46,397	73	...	33	46,364	73	1067 ; 18-4-1921 1669 ; 18-4-1921 2000 ; 23-5-1921 S. 36-10 ; 19-9-1921 36-10-6540 ; 9-11-1921 36-10-10034 ; 20-?-1922 36-10-2358 ; 28-5-1921	
	Total, Central Circle.	54,194	85	...	34	54,160	85		
SOUTHERN CIRCLE.									
Kánara, N. D.	Kánara	58	.....	...	...	58	...		
Kánara, E. D.	Do.	1,711	3	...	...	1,711	3		*Correction as per Forest Settlement Register.
Kánara, C. D.	Do.	32,861	51	...	839	32,022	50		
Kánara, S. D.	Do.	44,650	70	1,061	...	54,581	85	S. 35-9-1051 A. ; 1-8-1921 S 36-2356 A. ; 20-8-1921 S. 36-9 A.-2357 ; 20-8-1921 S. 36-9-2800 A. ; 6-9-1921 S. 36-9-2823 A. ; 6-9-1921 S. 36-9-5175 A. ; 12-10-1921 S. 35-9-5970 A. ; 24-10-1921 S. 35-9-5993 A. ; 21-10-1921 S. 36-9-6825 A. ; 16-11-1921 S. 36-9-6826 A. ; 16-11-1921 S. 36-9-6897 A. ; 16-11-1921 S. 39-9-6898 A. ; 16-11-1921 S. 36-9-6900 A. ; 16-11-1921 S. 36-9-6901 A. ; 16-11-1921 S. 36-9-6902 A. ; 16-11-1921 S. 36-9-6903 A. ; 16-11-1921 S. 36-9-7146 A. ; 16-11-1921 S. 36-9-8080 A. ; 23-12-1921 S. 36-9-8099 A. ; 23-12-1921 S. 36-9-8101 A. ; 23-12-1921 S. 36-9-8102 A. ; 23-12-1921 S. 36-9-8232 A. ; 23-12-1921 S. 36-9-9076 A. ; 23-12-1921 S. 35-9-9111 ; 23-12-1921	
				6,870*					

FORM No. 51-A.—*Area of Protected Forest, 1921-1922.*—continued.

Division.	Civil District or Territory.	Area on 1st April 1921.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1922.		No. and date of Notification of addition or transfer.	Remarks.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10
SOUTHERN CIRCLE—*continued.*									
Kánara, W. D. ...	Kánara ...	9,028	14	116*	...	9,144	14		
Belgaum	Belgaum ...	12	...	...	...	12	...		
Dharwar-Bijapur..	Dharwar and Bijapur.	...	...	...	...	...	...		
School Division ...	Dharwar and Belgaum.	...	...	...	...	...	...		
Ratnagiri ...	Ratnagiri...	...	...	...	...	...	...		
	Total, Southern Circle.	88,320	138	1,177 8,870†	839	97,528	152		†Transfer from 51
SIND CIRCLE.									
Sukkur ...	Sukkur and Upper Sind Frontier.	...	...	8,035	...	8,090	13	S. 35-20-8871 16-1-1923 ; S. 35-20-8881 16-1-1923 ; S. 35-20-9469 16-1-1923 ;	
Shikarpur... ...	Upper Sind Frontier.	585	1—0	...	...	585	1		
Larkana ...	Nawabshah	...	...	3,055	...	3,055	5	S. 35-20-5872 8-10-1921 ; S. 35-20-8690 16-1-1922 ;	
Hyderabad ...	Karachi ...	...	...	2,700	—240	2,460	4	S-53, 20-2756 25-9-1921 ;	— Eroded.
Karachi	Karachi and Hyderabad.	4,888	7	3,094	...	8,572	13	S. 35-20-2757 26-8-1921 ; A. Misc. 1719 7-5-1921 ; A. Misc. 2486 14-6-1921 ; A. Misc. 2427 14-6-1921 ; A. Misc. 2569 16-8-1921 ; S. 35-20-65 21-7-1921 ; S. 35-20 6-9-1921 ; S. 35-20-4407 5-10-1921 ; S. 35-20-5269 12-10-1921 ; S. 35-20-6026 -10-1921 ;	
	Total, Sind Circle.	5,473	8	18,075†	240	23,368	36		
	GRAND TOTAL, PRESIDENCY.	668,901	1,044	1,177 26,945†	1,148	695,235	1,086		†Transfer from 51.

FORM No. 51-B.—*Area of Forest Proper, Reserved or Mixed Fuel and Fodder Reserves under the management of the Forest Department for 1921-1922.*

Division.	Civil District or Territory.	Area on 1st April 1921.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1922.		No. and date of Notification of addition or transfer.	Remarks.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10
NORTHERN CIRCLE.									
Panch Mahals ...	Panch Mahals.	212,152	331	...	...	212,152	331		
Surat ...	Surat.	463,507	724	...	...	463,507	724		
	Baragaon	13,756	22	...	...	13,756	21		
	Dangs (Násik).								
North Thána ...	Thána ...	221,737	347	...	(*a*) 15	221,722	347	*Vide* Form No. 51.	
West Thána ...	Do. ...	192,651	301	(*a*) 15 + 3	...	192,669	301	Do.	
East Thána ...	Do. ...	293,218	458	...	...	293,218	459		
West Násik ...	Násik ...	207,511	324	...	...	207,511	324		
East Násik ...	Do. ...	481,343	752	54	273	481,124	752	Do.	
CENTRAL CIRCLE.	Total, Northern Circle.	2,085,875	3,259	57 (*a*) 15	273 (*a*) 15	2,085,659	3,259		
East Khándesh...	East Khándesh.	488,592	764	...	64	488,528	764	As per Form 51.	
West Khándesh.	West Khándesh.	396,909	620	3	...	396,912	620	Do.	
North Khándesh.	Do. ...	556,279	869	875	29	557,125	871	Do.	
Poona ...	Poona and Ahmednagar.	363,612	568	2,761	1	366,372	572	Do.	
Sátára ..	Sátára ...	330,987	517	67	2	331,052	517	Do.	
Kolába ...	Kolába and Ratnagiri.	269,639	421	4	...	269,643	421	Do.	
SOUTHERN CIRCLE.	Total, Central Circle.	2,406,018	3,759	3,710	96	2,409,632	3,765		
Kánara, N. D....	Kánara ...	215,325	336	36	6 *775	214,580	335		
Kánara, E. D....	Kánara and Dhárwár.	362,540	566	...	4	362,536	567		
Kánara, C. D.	Kánara ...	511,056	799	... 10,672	123 *839	520,766	814	* Corrections as per Forest Settlement Register.	
Kánara, S. D. ...	Do. ...	464,375	726	9,931	10,051	464,255	725		
Kánara, W. D....	Do. ...	530,153	828	*16,405	67	546,491	853		
Belgaum ...	Belgaum ...	426,802	667	9,529	44	436,287	682		
Dhárwár-Bijapur.	Dhárwár and Bijápur.	234,154	366	107 ‡29,390	93	263,558	412		
School Division .	Dhárwár and Belgaum.	81,233	127	...	24 29,390‡	51,819	81		
Ratnagiri ...	Ratnagiri ...	.....	...	...	...	.....	...		
	Total, Southern Circle.	2,825,638	4,415	46,680 29,390‡	12,026 29,390‡	2,860,292	4,469	‡Mere transfer from one Division to another.	

FORM No. 51-B.—*Area of Forest Proper, Reserved or Mixed Fuel and Fodder Reserves under the management of the Forest Department for 1921-1922*—continued.

Division.	Civil District or Territory.	Area on 1st April 1921.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1922.		No. and date of Notification of addition or transfer.	Remarks.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10
SIND CIRCLE.									
Sukkur ...	Sukkur and Upper Sind Frontier.	219,217	343	...	−4,347	214,870	336	*Vide* Form No. 51 and 51-A.	
Shikárpur ...	Do. ...	106,004	166	+2,415	−1,683	106,736	167		
Lárkána ...	Lárkána and Nawábsháh.	107,856	168	+4,643	−130	112,369	5		
Hyderabad ...	Hyderabad, Karáchi and Nawábsháh.	154,579	241	+3,080 *935	−3,159	155,435	243		
Karáchi ...	Karáchi and Hyderabad.	141,035	220	(*a*) 310 +1,305	−3,368	139,232	218		
	Total, Sind Circle.	728,691	1,138	12,688	12,687	728,692	1,139		
	GRAND TOTAL, PRESIDENCY.	8,046,222	12,571	63,135 29,405‡	25,082 29,405‡	8,084,275	12,632		‡ Mere transfer from one Division to another.

FORM NO. 51-C.—*Area of Fodder Reserves and Pasture Lands under the management of the Revenue Department for 1921-1922.*

Division.	Civil District or Territory.	Area on 1st April 1921.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1922.		No. and date of Notification of addition or transfer.	Remarks.
		Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10
NORTHERN CIRCLE.									
Surat ...	Surat ...	8,092	13	...	...	8,092	13		
	Nasik-Baragaon, Dangs.	1,267	2	..	...	1,267	2		
North Thána ...	Thána ...	95,089	148	...	28	95,061	148	*Vide* Form 51A.	
West Thána ...	Do. ...	56,807	89	...	...	56,807	89		
East Thána ...	Do. ...	91,045	142	...	7	91,038	142	*Vide* Form 51A.	
West Násik ...	Násik ...	63,835	100	...	...	63,835	100	Do. 51.	
East Násik ..	Do. ...	40,188	63	...	22	40,166	62		
Ahmedabad ...	Ahmedabad.	12,032	19	...	...	12,032	19		
	Total, Northern Circle.	368,355	576	...	57	368,298	575		
CENTRAL CIRCLE.									
East Khándesh ...	East Khándesh.	23,255	36	...	...	23,255	36		
West Khándesh ...	West Khándesh.	113,267	177	...	...	113,267	177		
Poona ...	Poona and Ahmednagar.	270,989	424	...	1,430	269,559	422	As per Form 51.	
Sátára ...	Sátára ...	124,341	195	...	130	124,211	194	Do.	
Kolába ...	Kolába ...	64,969	102	...	33	64,936	102	Do. 51A.	
Nagar-Sholápur .	Nagar and Sholápur.	445,553	696	...	398	445,155	695	Do. 51.	
	Total, Central Circle.	1,042,374	1,630	...	1,991	1,040,383	1,626		
SOUTHERN CIRCLE.									
Kánara, Eastern .	Kánara and Dhárwár.	2,329	4	...	...	2,329	4		
Belgaum ...	Belgaum ...	1,677	2	...	...	1,677	2		
Dhárwár-Bijápur .	Dhárwár and Bijápur.	81,871	128	...	...	81,871	128		
School Division ...	Dhárwár and Belgaum.	.....	...	...	...	... ..	...		
Ratnágiri ...	Ratnágiri ...	12,051	19	...	...	12,051	19		
	Total, Southern Circle.	97,928	153	...	...	97,928	153		
SIND CIRCLE.									
Karáchi ...	Karáchi (Malir reserve).	24	0—24	..	...	24	0—24		
	Total, Sind Circle.	24	0—24	...	...	24	0—24		
	Grand Total, Presidency.	1,508,681	2,359	...	2,048	1,506,633	2,354		

ABSTRACT OF FORMS Nos. 51, 51-A, 51-B.

Division.	In charge of the Forest Department.				
	Reserved Forest.			Protected Forest.	
	Forest proper.	Pasture reserves.	Fuel and fodder reserves.	Forest proper.	Pasture reserves.
NORTHERN CIRCLE.	Sq.m.	Sq.m.	Sq.m.	Sq.m.	Sq.m.
Panch Mahális ...	331	.....	...	325	.....
Surat ...	420	.....	...	1	.....
North Thána ...	344	.....	2	12	.....
West Thána ...	289	.....	...	...	.....
East Thána ...	459	.....	...	...	.....
West Násik ...	323	.....	1	...	.....
East Násik ...	750	.....	2	...	.....
Ahmedabad ...	.....	.....	...	...	.....
Total, Northern Circle ...	2,916	.....	5	338	.....
CENTRAL CIRCLE.					
East Khándesh ...	764	.....	...	...	...
West Khándesh ...	489	.....	131	...	.....
North Khándesh ...	871	.....	...	...	.....
Poona ...	561	.....	...	11	.....
Sátára ...	516	.....	...	1	.....
Kolába ...	417	.....	4	...	.....
Nagar-Sholápur ...	.....	.....	...	...	.....
Total, Central Circle ...	3,618	.....	135	12	.....
SOUTHERN CIRCLE.					
Kánara, N. D. ...	335	...	...	...	.....
Kánara, E. D. ...	457	107	...	...	3
Kánara, C. D. ...	594	170	...	...	50
Kánara, S. D. ...	403	237	...	85	.....
Kánara, W. D. ...	586	253	...	...	14
Belgaum ...	631	51	...	...	.....
Dhárwár-Bijápur ...	362	38	12	...	.....
School Division ...	80	1	...	...	.....
Ratnágiri ...	.....	.....	...	...	.....
Total, Southern Circle ...	3,448	857	12	85	67
SIND CIRCLE.					
Sukkur ...	323	.....	...	13	.....
Shikárpur ...	166	.....	...	1	.....
Lárkána ...	170	.....	...	5	.....
Hyderabad ...	239	.....	...	4	.....
Karáchi ...	205	.....	...	13	.....
Total, Sind Circle ...	1,103	.....	...	36	.....
GRAND TOTAL, PRESIDENCY.	11,085	857	152	471	67

No. 51-D.

AND 51-C FOR 1921-22.

In charge of the Revenue Department.				Total Forest Area.	Remarks.
Reserved Forest.			Protected Forest.		
Forest proper.	Pasture reserves.	Fuel and fodder reserves.	Pasture reserves.		
Sq.m.	Sq.m.	Sq.m.	Sq.m.	Sq.m.	
...	.....	...	...	331	
...	3	10	2	760	
...	.....	...	148	495	
...	.....	...	89	390	
...	.....	...	142	601	
...	4	2	94	424	
...	62	...	...	814	
...	.....	19	...	19	
...	69	31	475	3,834	
...	36	...	...	800	
...	177	...	...	797	
...	.....	...	...	871	
...	422	...	...	994	
...	188	6	...	711	
...	29	...	73	523	
...	695	...	...	695	
...	1,547	6	73	5,891	
...	.....	...	...	335	
...	4	...	...	571	
...	.....	...	...	814	
...	.....	...	...	725	
...	.....	...	...	853	
1	.....	1	...	684	
...	128	...	...	540	
...	.....	...	...	81	
14	.....	5	...	19	
15	132	6	...	4,622	
...	.....	...	...	336	
...	.....	...	...	167	
...	.....	...	...	175	
...	.....	...	...	243	
...	.....	...	...	*218	
...	.....	...	...	1,139	
15	1,748	43	548	14,986	

* The area comprising 24 acres which is under the management of Revenue Department has been accounted for.

FORM No. 52.—*Progress made in Forest*

Forest Division.	Civil District or Territory.	Name of Forest.	AREA IN SQUARE MILES.		
			Finally settled during year.	In hand at commencement of year.	Taken in hand during year.
1	2	3	4	5	6
NORTHERN CIRCLE.					
West Thána ...	Thána ...	Gundgaon ...	$\frac{3}{640}$	$\frac{*4}{640}$	... ...
East Násik ...	Násik ...	Agharkhurd ...	$\frac{12}{640}$	$\frac{12}{640}$	.....
	Do. ...	Pimpripale ...	$\frac{4}{640}$	$\frac{4}{640}$	.....
	Do. ...	Dahyane ...	$\frac{28}{640}$	$\frac{28}{640}$	.....
	Do. ...	Sitane ..	$\frac{†10}{640}$	.....	$\frac{‡10}{640}$
		Total, Northern Circle.	$\frac{57}{640}$	$\frac{48}{640}$	$\frac{10}{640}$

Settlements during the year 1921-1922.

Cost during year.		Entire cost per square mile of areas finally settled.	Government Notification of Settlement (No. and date of Notification).	Remarks.
In Forest Accounts.	In other Accounts.			
7	8	9	10	11
Rs.	Rs.	Rs.		
.....	.....	.....	A. Misc. 619 / 23-2-21 ; * A. Misc. 1309 / 15-5-20.	NOTE.—The area under Settlement is 4 acres in all and not 7 as shown during the last year.
.....	.....	.....	S. 35—11—7739 / 28-12-21.	
.....	.....	.....	S. 35—590 / 1-8-21.	
.....	.....	.....	S. 35—11—1713 (*d*) / 17-8-21.	
.....	.....	.....	† S. 35—11—9208 / 16-1-22. ‡ A. Misc. 2951 (*a*). / 8-7-21.	

FORM No. 52—*Progress made in Forest*

Forest Division.	Civil District or Territory.	Name of Forest.	AREA IN SQUARE MILES.		
			Finally settled during year.	In hand at commencement of year.	Taken in hand during year.
1	2	3	4	5	6
CENTRAL CIRCLE.					
West Khándesh ...	.....	Naoli, etc., 39 villages	.....	$\frac{67}{640}$	.....
North Khándesh ..	.....	Fattepur	$\frac{184}{640}$	$\frac{184}{640}$	.....
		Singaspur	$\frac{378}{640}$	$\frac{378}{640}$	.....
		Bhudki	$\frac{312}{640}$	$\frac{312}{640}$	.....
		Nagzari	.....	$\frac{77}{640}$	.....
		Baudhara	.....	.....	$\frac{28}{640}$
Poona	.....	Agalambe	$\frac{57}{640}$	$\frac{100}{640}$	.....
		Sakúrde	$\frac{35}{640}$	$\frac{35}{640}$	.....
		Pangloli, etc., 9 villages.	$4\frac{37}{640}$	$4\frac{37}{640}$	.....
		Pangloli	$\frac{72}{640}$	.....	$\frac{72}{640}$
		Pendshet	.....	$\frac{30}{640}$	.....
		Sarola Pathar	.....	$\frac{3}{640}$	.....
Sátára	.....	Munavla Kargaon ...	$\frac{67}{640}$	$\frac{205}{640}$	.....
		Dear and Pali... ...		$\frac{26}{640}$	.....
		Zadoli	.....	.....	$\frac{17}{640}$
Kolába	.....	Apta, etc.	.....	$2\frac{433}{640}$	.....
		Kongla	$\frac{4}{640}$	$\frac{4}{640}$	.....
	Total, Central Circle ...	.....	$5\frac{506}{640}$	$8\frac{611}{640}$	$\frac{117}{640}$

Settlements during the year 1921-1922—continued.

Cost during year.		Entire cost per square mile of areas finally settled.	Government Notification of Settlement. (No. and date on Notification).	Remarks.
In Forest Accounts.	In other Accounts.			
7	8	9	10	11
Rs.	Rs.	Rs.		
.....	.....	.....		
.....	.....	.....	35—9—9207 16-1-22.	
.....	.....	.....	35—19—16 15-8-21, 1060 22-3-21.	
.....	.....	.....	35—9—9276 16-1-22.	
.....	.....	.....		
.....	.....	.....	S. 1—35—5 21-7-21.	
.....	.....	.....	2596 9-7-21.	
.....	.....	.....	S. 35—13 1-8-21.	
.....	.....	.....	35—13—8133 26-12-21.	
.....	.....	.....	35—13—8132 26-12-21.	
.....	.....	.....	A. Misc. 2733 31-8-20.	
.....	.....	.....	D. Misc. 589 10-1-20	
.....	.....	.....	S. 35—15—6777 & A. 22-11-21.	
.....	.....	.....		
.....	.....	.....	2080 25-5-21.	
.....	.....	.....		
.....	.....	.....	A. Misc. 1713 29-4-21.	
.....	.....	.....		

FORM No. 52—*Progress made in Forest Settlements*

Forest Division.	Civil District or Territory.	Name of Forest.	AREA IN SQUARE MILES. Finally settled during year.	In hand at commencement of year.	Taken in hand during year.
1	2	3	4	5	6
SOUTHERN CIRCLE.					
Reserved Forest.					
Kánara, Northern...	Kánara ...	.....	36/640	31/640	36/640
Do. Central ...	Do. ...	.....	.....	.....	.....
Do. Southern...	Do. ...	.....	.....	7/640	3/640
Do. Western ...	Do. ...	.....	1/640	1/640	1/640
Belgaum	Belgaum ...	.....	14 569/640	15 301/640	212/640
Dhárwar-Bijápur ...	Dhárwár and Bijápur ...	.....	107/640	119/640	306/640
	Total Reserved Forest ...	.....	15 *73/640	15 459/640	558/640
Protected Forest.					
Kánara Southern ..	Kánara ...	.....	15 331/640	.....	15 331/640
	Total, Southern Circle ...	.....	30 404/640	15 459/640	16 249/640
SIND CIRCLE.					
Reserved Forest.					
Sukkur ...	Sukkur ...	.....	17 221/640	33 230/640	13/640
Shikárpur ...	Do. ...	.....	.....	.....	1 263/640
Lárkána ...	Nawábshah ...	.....	.....	.....	100/640
Karáchi ...	Hyderabad ...	.....	1 288/640	1 288/640	.....
	Karáchi ...	.....	26 106/640	35 298/640	.....
	Total, Reserved Forest ...	.....	44 615/640	70 171/640	1 376/640
Protected Forest.					
Sukkur ...	Sukkur ...	.....	12 356/640	.....	12 356/640
Lárkána ...	Nawábshah ...	.....	5 455/640	.....	5 455/640
Hyderabad ...	Karachi ...	.....	4 140/640	.....	4 140/640
Karachi ...	Do. ...	.....	13 105/640	7 408/640	5 337/640
	Hyderabad ...	.....	147/640	.....	147/640
	Total, Protected Forest ...	.....	35 563/640	7 408/640	28 155/640
	Total, Sind Circle ...	.....	80 536/640	77 579/640	29 531/640
	Grand Total, Presidency...	.....	117 225/640	102 417/640	46 267/640

during the year 1921-22—continued.

Cost during year.			Government Notification of Settlement.		Remarks.
In Forest Account.	In other Accounts.	Entire cost per square mile of area finally settled.	No.	Date.	
7	8	9	10	11	12
Rs.					
...	...	...	*Vide Notification given in Form No. 51 under Sec. 19.		
2	...	...			
795	...	...	Under Sec. 4 / S. 35-728	27-7-21	
167	...	...	S. 35-3	8-7-21	
...	...	...	A. Misc. 1352	18-4-21	The question of afforesting S. No. 154 of Hadke Sirur (7 acres, 11 gunthas) and S. No. 370 of Kadle (2 acres, 35 gunthas) in Honawar Taluka notified under S. 4 of the Indian Forest Act in Government Notification Nos. A. Misc. 1024 / 23-3-21 and S. 35-728 / 27-7-21 is being dropped the lands being more suitable for cultivation as recommended by the Forest Settlement Officer, Kanara.
			,, 1361	18-4-21	
			,, 1714	29-4-21	
			,, 1754	2-5-21	
			,, 1774	10-5-21	
			,, 2071	23-5-21	
			35-3-1346	1-8-21	
			S. 35-3-5846	8-1-21	
			S. 35-3-724	20-3-22	
			S. 35-4-2577	9-7-21	
			D. 35-4	11-7-21	
			S. 35-4	21-7-21	
...	...	...	S. 35-6-3231	2-9-21	
			S. 35-6	11-7-21	
			C. 35-4-4751	10-10-21	
			S. 36-4-8251 A.	10-1-22	
			S. 35-4-3064	20-3-22	
964	...	...			
...	...	...	*Vide Notifications in Form No. 51 A.		
964	...	...			
...	...	...	No. A. Misc. 1050 / 4-4-21 ; A. Misc. 1537 / 23-4-21 ; 5. 35-20-9085 / 21-1-22 ; 93 / 21-7-21 ; 1144 / 20-3-22.		
...	...	...	2484 / 12-7-21.		
...	...	...	3190 / 15-3-22.		
..	...	...	8890 / 21-1-22.		
...	...	...	1991 / 16-5-21 ; 5. 35-1 / 23-6-21 ; 5. 35-21-8890 / 21-1-22 *Note.*—The difference of 30 acres is due to their exclusion at final settlement.		
...	...	...			
...	...	...	8571 / 16-1-22 ; 8881 / 16-1-22 ; 9469 / 16-1-22.		
...	...	...	5872 / 8-10-21 ; 8690 / 16-1-22.		
...	...	...	2756 and 2757 / 20-8-21.		
...	...	...	3593 / 6-9-21 ; 5269 / 12-1-21 ; 1719 / 7-5-21 ; 2427 / 14-6-21.		
...	...	...	65 / 21-7-21 ; 6026 / 25-10-21 ; 2569 / 16-8-21 ; 4407 / 5-10-21 ; 2486 / 14-6-21.		
...	...	...			
...	...	...			
964	...	...			

Form No. 53.—*Record of Demarcation and Maintenance of Boundaries, 1921-1922.*

Division.	Length of Boundaries artificially demarcated during the year.	Length of previously existing Boundaries repaired.	Length of previously existing Boundaries not repaired.	Total length of artificially marked Boundaries at the close of the year.	Length of Boundaries still to be demarcated at the close of the year.	Length of natural Boundaries not requiring artificial marks.	Total length of Boundaries at the close of the year.	Expenditure on Demarcation during the year.		Remarks.
								On new work.	On repairs.	
1	2	3	4	5	6	7	8	9	10	11
NORTHERN CIRCLE.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Rs.	Rs.	
Panch Mahâls ...	.....	959	.....	959	.....	101	1,060	.....	26	
Surat ...	.....	857	.....	857	.....	103	960	.....	112	
North Thâna ...	.....	911	.....	911	.....	34	945	.....	533	
West Thâna ...	.....	736	.....	736	.....	32	768	.....	232	
East Thâna ...	32*	1,393	.....	1,425	.....	148	1,573	336	183	* Out of 39 miles shown as to be demarcated 7 miles consist of the most hilly inaccessible tract of the Igatpuri Range, bordering on the Ahmednagar District which required no demarcation. Therefore they are added to area in Column 7.
West Násik ...	.....	1,580	.....	1,580	.....	193	1,773	.....	256	
East Násik ...	2†	1,962	.....	1,964	.....	132	2,096	.....†	272	† No expenditure was incurred on new demarcation work of 2 miles as it was done while laying out the coupes, the cost of which has been charged under AVIII.
Total, Northern Circle ...	34	8,398	.....	8,432	.....	743	9,175	336	1,614	
CENTRAL CIRCLE.										
East Khándesh ...	.....	2,181	.....	2,181	.....	107	2,288	.....	107	
North Khándesh ...	.....	309	.....	309	.....	52	361	.....	39	
West Khándesh ...	.....	843	.....	843	.....	67	910	.....	195	
Poona ...	10	3,357	425	3,792	16	458	4,266	166	250	
Kolába ...	3	1,993	.....	1,996	3	72	2,071	40	264	
Sátára ...	.....	4,244	.....	4,244	.....	80	4,324	.....	529	
Total, Central Circle ...	13	12,927	425	13,365	19	836	14,220	206	1,384	
SOUTHERN CIRCLE.										
Kánara, Northern ...	.....	.....	390	390	.....	14	404	.....	.....	
Do. Eastern ...	.....	175‡	1,322	1,497	.....	31	1,528	.....	.....	‡ Cleared by Guards
Do. Central ...	.....	36	3,789	3,834	.....	108	3,942	.....	4	

FORM No. 53—*Record of Demarcation and Maintenance of Boundaries, 1921-1922*—concluded.

Division.	Length of Boundaries artificially demarcated during the year.	Length of previously existing Boundaries repaired.	Length of previously existing Boundaries not repaired.	Total length of artificially marked Boundaries at the close of the year.	Length of Boundaries still to be demarcated at the close of the year.	Length of natural Boundaries not requiring artificial marks.	Total length of Boundaries at the close of the year.	Expenditure on Demarcation during the year.		Remarks.
								On new work.	On repairs.	
1	2	3	4	5	6	7	8	9	10	11
SOUTHERN CIRCLE—*concluded.*	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Rs.	Rs.	
Kánara, Southern ...	.....	25	4,774	4,799	.....	112	4,911	.....	.....	
Do. Western ...	.....	.....	1,840	1,840	10	152	2,002	.....	446*	* Pay and allowance of a Revenue Circle Inspector deputed on the work of demarcating kumris.
Belgaum	7	.....	1,908	1,915	69	137	2,121	653	9	
Dhárwár—Bijápur	.....	708	757	1,465	9	38	1,512	.....	165	
School Division ...	.....	.....	143	143	.....	9	152	.....	50	
Total, Southern Circle	7	944	14,932	15,883	88	601	16,572	653	674	
SIND CIRCLE.										
Sukkur	.....	659	.....	650	.....	82	732	.....	.....	
Shikarpur	4	390	.....	394	.....	58	452	.....	.....	
Lárkána	7	399	.....	406	.....	78	484	.....	.....	
Hyderabad	7	355	.....	362	.....	196	558	.....	.....	
Karáchi	2	254	.....	256	.....	231	487	.....	.....	
Total, Sind Circle ...	20	2,048	.....	2,068	.....	645	2,713	.....	.....	
GRAND TOTAL PRESIDENCY ...	74	24,317	15,357	39,748	107	2,825	42,680	1,195	3,672	

FORM No. 54.—*Statement showing Forest Areas Surveyed and under Survey by the Survey of India Department during the year 1921-1922.*

Division.	Topographical Surveys, Special Surveys paid for by Forest Department. Previous. 4"=1 mile.	Previous. 2"=1 mile.	Of the year. 4"=1 mile.	Of the year. 2"=1 mile.	Cost. Incurred during year.	Cost. Total to the end of year.	Ordinary Surveys not paid for by Forest Department. Previous. 2"=1 mile.	Previous. Smaller scales.	Of the year. 2"=1 mile.	Of the year. Smaller scales.	Boundary Surveys. Previous.	Boundary Surveys. Of the year.	Total area surveyed.	Area remaining to be surveyed.	Total area as per forms 51 and 51A.	Remarks.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
NORTHERN CIRCLE.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.	Rs.	Sq. m.	Sq. m.	Sq. m.	Sq. m	L. m.	L. m.	Sq. m.	Sq. m.	Sq. m.	
Reserved Forest.																
Panch Mahals	...	...	...	...	...	...*	...	...	...	...	...	...	331	...	331	* Not available
Surat	...	...	...	...	...	2,509	...	...	...	...	...	...	433	...	433	
North Thána	...	...	...	...	...	1,27,563	...	...	...	...	...	...	346	...	346	
West Thána	...	...	...	...	...		...	...	...	...	...	...	289	...	289	
East Thána	...	...	...	...	...		...	...	...	...	...	...	459	...	459	
West Násik	...	...	...	...	...	1,11,290	...	...	...	...	...	...	330	...	330	
East Nasik	...	...	...	...	...		...	...	...	...	...	...	814	...	814	
Ahmedabad	...	...	...	...	...	...	...	...	...	...	...	...	19	...	19	
Total	...	...	...	...	...	2,41,362	...	...	...	...	...	...	3,021	...	3,021	
Protected Forest.																
Surat	...	...	...	...	...	...	...	...	...	...	...	...	327	...	327	
North Thána	...	...	...	...	...	...	...	...	...	...	...	...	149	...	149	
West Thána	...	...	...	...	...	...	...	...	...	...	...	...	101	...	101	
East Thána	...	...	...	...	...	...	...	...	...	...	...	...	142	...	142	
West Násik	...	...	...	...	...	...	...	...	...	...	...	...	94	...	94	
Total	...	...	...	...	...	...	...	...	...	...	...	...	813	...	813	
Total, Northern Circle	...	...	...	...	...	2,41,362	...	...	...	...	...	...	3,834	...	3,834	
CENTRAL CIRCLE.																
Reserved Forest.																
East Khándesh	...	...	...	...	Nothing done this year.	24,084	...	...	...	...	...	...	800	...	800	Cost of the year has not been entered as the Survey and map office have not supplied any information.
West Khandesh	...	...	...	...		63,694	...	...	...	...	...	...	797	...	797	
North Khándesh	...	...	...	...		1,371	...	...	...	...	...	...	871	...	871	
Poona	...	...	...	...		1,11,290	...	...	...	...	...	...	983	...	983	
Sátára	...	...	...	...		62,569	...	...	...	...	...	...	710	...	710	
Kolába	...	...	...	...		Not known.	...	...	...	...	...	...	450	...	450	The previous cost cannot be checked as the Survey Department cannot give the figures.
Nagar & Sholápur	...	...	...	...		91,230	...	...	...	...	...	...	695	...	695	
Total	...	...	...	...	...	3,54,238	...	...	...	...	...	...	5,306	...	5,306	
Protected Forest.																
Poona	...	...	...	...	...	...	...	...	...	...	...	...	11	...	11	
Sátára	...	...	...	...	...	7,085	...	...	...	...	...	...	1	...	1	
Kolába	...	...	...	...	...	...	...	...	...	...	...	...	73	...	73	
Total	...	...	...	...	...	7,085	...	...	...	...	...	...	85	...	85	
Total, Central Circle.	...	...	...	...	...	3,61,323	...	...	...	...	...	...	5,391	...	5,391	
SOUTHERN CIRCLE.																
Reserved Forests.																
Kánara, Northern	...	...	...	...	...		...	...	...	...	...	...	335	...	335	
Do. Eastern	...	...	...	...	...		...	...	...	...	...	...	568	...	568	
Do. Central	...	...	...	...	...	3,90,231	...	...	...	...	...	...	764	...	764	
Do. Southern	...	...	...	...	...		...	...	...	...	...	...	640	...	640	
Do. Western	...	...	...	...	...		...	...	...	...	...	...	839	...	839	
Belgaum	...	...	...	...	...	57,104	...	...	...	...	...	...	684	...	684	
Dhárwár-Bijápur	...	...	...	...	...	15,268	...	...	...	...	...	...	264	276	540	
School Division	...	...	...	...	...		...	...	...	...	...	...	81	...	81	
Ratnágiri	...	...	...	...	...	581	...	...	...	...	...	...	19	...	19	
Total	...	...	...	...	...	4,63,184	...	...	...	...	...	...	4,194	276	4,470	
Protected Forests.																
Kánara Eastern	...	...	...	...	...	...	...	...	...	...	...	...	3	...	3	
Do. Central	...	...	...	...	...	...	...	...	...	...	...	...	50	...	50	
Do. Southern	...	...	...	...	...	...	...	...	...	...	...	...	85	...	85	
Do. Western	...	...	...	...	...	...	...	...	...	...	...	...	14	...	14	
Total	...	...	...	...	...	...	...	...	...	...	...	...	152	...	152	
Total, Southern Circle	...	...	...	...	...	4,63,184	...	...	...	...	...	...	4,346	276	4,622	
SIND CIRCLE.																
Reserved Forest.																
Sukkur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	323	
Shikarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	166	
Lárkána	...	...	...	...	...	...	...	...	...	...	...	...	...	...	170	
Hyderabad	...	...	...	...	...	...	...	...	...	...	...	...	...	...	239	
Karachi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	205	
Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1,103	
Protected Forests.																
Sukkur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13	
Shikarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
Lárkána	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	
Hyderabad	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	
Karachi	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13	
Total	...	...	...	...	...	...	...	...	...	...	...	...	...	...	36	
Total, Sind Circle	...	...	...	...	...	...	...	...	...	...	...	...	...	1,130	1,139	
GRAND TOTAL, PRESIDENCY	...	...	...	...	...	10,65,869	...	...	...	...	...	...	13,571	1,415	14,986	

Form No. 55.—*Progress made in Working Plans, during the year 1921-1922.*

Division.	Area under sanctioned Working Plans.					Area not under Working Plans.			Total forest area in Form No.51-B. Total of columns 5, 7, 8 & 9.	Revision.			Expenditure on Working Plans during the year.	Remarks.
	At commencement of year.	Added during year.	Deducted during year.	At close of year.		Plans under preparation.	Plans not under preparation.			Due or required.	In progress at end of year.	Revised Plans sanctioned during year.		
				Actual area.	Percentage of total forest area (as shown in column 10).		Required at present.	Not required at present.						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
NORTHERN CIRCLE.	Sq. m.	Sq. m.	Sq. m.	Sq. m	Per cent.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Rs.	
Reserved Forest.														
Panch Mahâls ...	331	...	...	331	100	...	...	...	331	...	331	...	438	
Surat ...	301	...	...	301	71·4	119	...	...	420	211	...	...	.....	
North Thâna ...	346	...	...	346	100	...	...	...	346	...	346	...	.....	
West Thâna ...	289	...	...	289	100	...	...	...	289	...	289	...	.....	Revised Plan for the Than Forests sanctioned by G.O., R.D., No. 4448, dated 24th April 1922.
East Thâna ...	458	...	...	458	100	1	...	...	459	84	374	...	.....	
West Násik ...	298	...	...	298	91·9	...	26*	...	324	324	...	...	.....	* These are areas that have been added from time to time and should have been put under the Working Plan. They can now be added when the plan is revised.
East Násik ...	579	...	...	597	76·9	.	...	173†	752	181	...	...	.....	† Out of these 94 were enclosed as not to be worked when the working plans were prepared.
Total ...	2,602	...	...	2,602	89·1	120	26	173	2,921	800	1,340	...	438	
Protected Forest.														
Surat ...	178	...	...	178	54·7	147	...	...	325	178	...	...	.....	
North Thâna ...	...	...	...	...	...	...	1	...	1	...	...	...	.....	
West Thâna ...	...	...	...	...	...	...	12	...	12	...	...	...	.....	
Total ...	178	...	...	178	54·7	147	13	...	338	178	...	...	.....	
Total, Northern Circle .	2,780	...	...	2,780	85·3	267	39	173	3,259	978	1,340	...	438	

FORM NO. 55—*Progress made in Working Plans during the year 1921-1922.*—concluded

Division.	Area under sanctioned Working Plans.					Area not under Working Plans.			Total forest area in Form No. 51-B. Total of Columns 5, 7, 8 & 9.	Revision.			Expenditure on Working Plans during the year.	Remarks.
	At commencement of year.	Added during year.	Deducted during year.	At close of year.		Plans under preparation.	Plans not under preparation.			Due or required.	In progress at end of year.	Revised Plans sanctioned during year.		
				Actual area.	Percentage of total forest area (as shown in column 10).		Required at present.	Not required at present.						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CENTRAL CIRCLE.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Per ct.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq m.	Sq. m.	Sq. m.	Rs.	
East Khándesh ...	748	...	...	748	98	...	...	16	764	...	...	...	.....	* Last year the figure was shown to 3 while according to the correct calculations of the area into square miles it comes to 2; hence correction.
West Khándesh ...	180	...	...	180	29	...	440 (*a*)	...	620	...	...	...	.....	(*a*) 175 Teak forest in Navapur and Nandurbar Part. 265 Scrub forest in Sakri, Pimpalner and part of Dhulia. 440
North Khándesh ...	564	...	...	564	64	...	...	307 (*b*)	871	...	...	...	.....	(*b*) 304 Akrani. 2 Shirpur and Taloda. 306
Poona ...	320	...	...	320	57	...	72 (*e*)	169 (*d*)	561	320 (*g*)	...	...	.....	(*c*) 1·7 Matheran. 1·3 Kolaba Working Plan. 3
Sátára ...	80	...	...	80	15	...	435 (*f*)	...	515	45·4 (*h*)	34·6 (*i*)	...	.....	(*d*) Evergreen forest of Khed, Ambegaon and Junner.
Kolába ...	419	...	...	419	99	...	...	2*	421	...	3 (*c*)	...	.....	(*e*) 66 Sangamner babul, teak and Rival (Poona) 1 Dhond forest taken over from R. D. 4 Catchment area of Shirvote Lake. 71
Total ...	2,311	...	...	2,311	60	...	947	494	3,752	365·4	37·6	...	.....	(*f*) Central Satara Teak and Scrub jungles and evergreen forests of Mahableshwar part and part of Patan and Shirala.
Protected Forest.														(*g*) Poona Teak, Babul and other Working Plans.
Poona ...	...	...	...	...	...	11	...	...	11	...	...	...	.....	(*h*) Karad, Patan and Shirala Teak.
Sátára ...	...	...	...	...	...	...	1	...	1	...	...	...	.....	(*i*) Mahableshwar Working Plans Blocks I to III.
Total ...	...	...	...	...	...	11	1	...	12	...	...	...	.....	(1) Correction as per Forest Settlement Register—*vide* Form 51.
Leased Forest.														(2) Transferred to column 9 being not under Working Plans as ascertained from Divisional Forest Officer.
Sátára ...	...	...	...	...	...	...	...	1	1	...	...	...	.....	(3) Rectification as per information supplied by Divisional Forest Officer.
Total ...	...	...	...	...	...	...	...	...	...	...	...	...	.....	(4) Transferred from School Division.
Total, Central Circle...	2,311	...	...	2,311	61·4	11	948	495	3,765	365·4	37·6	...	.....	(5) Kalkeri Range Forests transferred to Dharwar Bijapur Division.
SOUTHERN CIRCLE.														
Reserved Forest.														
Kánara, Northern ...	335	...	1(1) 14(2)	321	95·9	...	...	14	335	236	...	...	.....	
Do. Eastern ...	310	61(3)	...	371	65·8	14	50	129	564	272	257	...	.....	
Do. Central ...	260	...	...	260	34	...	...	504	764	...	...	...	.....	
Do. Southern ...	89	...	...	89	13·9	97	...	454	640	...	...	...	.....	
Do. Western ...	253	...	...	258	30·8	...	...	581	839	48	48	...	.....	
Belgaum ...	318	...	...	318	46·5	...	364	...	682	168	168	...	.....	
Dhárwár-Bijápur ...	...	14(3)	...	51	12·3	217	104	40	412	...	...	...	.....	
School Division ...	116	37(4)	37(5)	79	98·5	...	...	2	81	...	...	...	.....	
Total ...	1,687	112	52	1,747	40·5	328	518	1,724	4,317	724	473	...	.....	
Protected Forest.														
Do. Eastern ...	...	...	...	...	...	...	...	3	3	...	...	...	.....	
Do. Central ...	...	...	...	...	...	...	...	50	50	...	...	...	.....	
Do. Southern ...	...	...	...	...	...	...	...	85	85	...	...	...	.....	
Do. Western ...	...	...	...	...	...	...	...	14	14	...	...	...	.....	
Total ...	...	...	...	...	...	...	...	152	152	...	...	...	.....	
Total, Southern Circle .	1,687	112	52	1,747	39·1	328	518	1,876	4,469	724	473	...	.....	
SIND CIRCLE.														
Reserved Forest.														
Sukkur ...	298	...	7	291	90·1	...	...	32	323	301	...	...	.....	
Shikárpur ...	163	...	3	160	96·4	...	...	6	166	165	...	...	.....	
Lárkána ...	164	...	...	164	96·5	...	...	6	170	172	...	...	.....	
Hyderabad ...	225	...	1	224	93·7	...	9	6	239	...	...	...	.....	
Kárachi ...	213	...	11	202	99·0	...	...	3	205	...	...	...	.....	
Total ...	1,063	...	22	1,041	94·4	...	9	53	1,103	638	...	...	.....	
Protected Forest.														
Sukkur ...	...	...	...	...	...	...	...	13	13	...	...	...	.....	
Shikárpur ...	1	...	...	1	100	...	...	...	1	...	...	...	.....	
Larkana ...	...	...	...	...	...	...	...	5	5	...	...	...	.....	
Hyderabad ...	...	...	...	...	...	...	...	4	4	...	...	...	.....	
Karáchi ...	...	...	...	...	...	...	...	13	13	...	...	...	.....	
Total ...	1	...	...	1	2·8	...	...	35	36	...	...	...	.....	
Total, Sind Circle ...	1,064	...	22	1,042	91·6	...	9	88	1,139	638	...	...	.....	
GRAND TOTAL, PRESIDENCY ...	7,842	112	74	7,880	62·4	606	1,514	2,632	1.632	2,705	1,850	...	438	

FORM NO. 55-A—*Abstract of Control Books for Working Plans for the year 1921-22.*

Division.	Name of Working Plan.	Year in which sanctioned.	Area up to date.		Brief statement of reasons for arrears.
			To be worked.	Actually worked.	
1	2	3	4	5	6
NORTHERN CIRCLE.			Acres.	Acres.	
Panch Mahâls	Godhra	1896 modified in 1905.	60,210	59,184	
	Kalol	1905	9,375	8,367	Certain Coupes remained unsold.
	Halol	1906	11,500	9,812	
	Dohad	1901, modified in 1910 and under revision from 1916.	5,725	5,258	Certain Coupes not sold, growth being poor.
	Zhalod		3,283	3,283	
Surat	Mandvi	1910	12,429	12,429	
	Bulsar	1900	1,844	1,833	One coupe was left uncut owing to the boundary dispute.
	South Dangs	1916	19,558	17,382	Pending revision of South Dangs Working Plan, the exploitation has been curtailed to some extent.
	North Dangs	1914	18,913	11,190	Three felling areas are in arrears owing to scarcity of labour and prevalance of epidemics in the past years.
	Baragaon Dangs (Peint)	1905	56,404	56,404	
North Thâna	Thâna clear cutting	Introduced from 1917-1918.	14,608	13,791	Now Sanctioned as "Revised Working Plan of Thana Forests" *vide* G.R., R.D., No. 4148 dated 24th April 1922; certain Coupes unsaleable and others' left wholly or partially unworked by contractors owing to scarcity of labour.
	Do.	Do.	11,498	11,003	Some portions of the Coupes being very difficult to work and some being too poor and unsaleable.
West Thâna	Kandivli Fuel Plan	1899	57	57	
	Tulsi clear cutting	Not yet sanctioned but introduced from 1917-1918.	159	159	
East Thâna	Thâna clear cutting	Introduced from 1917-1918.	12,838	11,976	Certain Coupes being unsaleable, had no offers.
	Igatpuri coppice with standards ...	1912	13,493	12,514	Do.
West Násik	Násik Assa	1905	8,320	8,315	Do not pay to extract as there are no facilities for exploitation.
	Dindori	Do.	17,150	10,623	Some coupes being remote had no offers.
	Harsul Talasri	Do.	48,745	41,426	Certain area held back for want of communications.
	Peint, Barha				
East Násik	Malegaon (Anjan Working Plan) ...	Do.	31,275	22,199	
	Baglan (Teak do.) ...	Do.	26,782	8,477	
	Do. (Scrub do.) ...	Do.	17,516	4,855	
	Kalwan (Teak do.) ...	Do.	23,481	16,629	
	Do. (Scrub do.) ...	Do.	5,246	2,240	Poor stock and therefore no offers.
	Chandor	1906	7,699	3,199	
	Sinnar	1912	933	632	
	Kopergaon	1901	1,876	1,850	

FORM NO. 55-A—*Abstract of Control Books for Working Plans for the year 1921-22*—continued.

Division.	Name of Working Plan.	Year in which sanctioned.	Area up to date.		Brief statement of reasons for arrears.
			To be worked.	Actually worked.	
1	2	3	4	5	6
CENTRAL CIRCLE.			Acres	Acres.	
North Khándesh	Satpuda Working Plans	1921 (*a*)	.....	.....	(*a*) The working has been commenced from 1918-19.
	Anjan Working Circle	.....	1,596	(*b*)1,510	(*b*) Lifference is due to one coupe not being sold owing to poorness in growth.
	Mixed fuel ,, ...	.....	8,333	(*c*)8,113	(*c*) Some coupes remaining unsold on account of inaccessibility and poor growth.
	Teak pole ,, ...	.....	20,435	(*d*)15,696	
	Teak timber ,, ...	.....	2,003	(*d*)1,970	(*d*) Some coupes not being sold for want of accessibility.
West Khándesh	Deomogra Teak	1904-05	12,454	12,454	
	Anjan	1914-15	13,563	13,563	(*e*) 2,265 acres from several coupes could not be worked for various reasons.
	Umarpata Teak	1903-04	10,373	(*e*)8,108	(*f*) Poor and inaccessible coupes not being sold.
East Khándesh	Satpuda Working Plans	1921 (*a*)	.....	.....	(*g*) No demand in the absence of adequate lines of communications.
	Anjan Working Circle	.....	15,323	(*f*)7,924	(*h*) Some coupes containing deficient stock and to their inaccessibility to carts.
	Teak Pole ,, ...	.....	9,592	(*f*)6,553	
	Teak Timber ,, ...	.....	5,669	..... (*g*)	
	Satmala Teak and mixed forest of Chalisgaon.	1909	4,106	(*f*)2,929	(*i*) Some coupes having paucity of growth and insufficient prices being offered in the years of less demand.
	Anjan and Scrub, Edlabad	1914	12,723	(*f*)9,153	
	Transpurna Babul, ,, ...	1915	653	(*f*)408	(*j*) One coupe not being worked as it was situated in the Station area and to change in the working of coupes form Coupe No. 19 and onwards which ought to have been worked in 1920-21 and onwards instead of 1921-22 and onwards.
	Jamner, Bhusaval, ,, ...	1905	787	(*f*)675	
	Khoorli Babul Provisional Working Plan ...	1915	15	(*f*)10	(*k*) The Plan was revised in 1920.
Sátára	Mahabaleshwar Plateau	1909s10	6,427	(*h*)4,890	(*l*) 33 acres unsold. 74 do. sold but not cut.
	Karad, Patan and Shirala Teak	1907-08	10,962	(*i*)10,072	7,213 do. not sold growth being immature.
Kolába	Matheran Plateau	1908	727	(*j*)646	
	Casuarina	1920	5	(*k*)5	(*m*) Some areas being too sparcely wooded to permit working.
	Teak	1907	62,603	(*l*)55,283	
Poona	Poona Teak	1903	40,033	(*m*)29,063	
	Poona Babul	1902	7,348	(*m* 6,350	(*n*) The plan was Suspended and not worked from 1910-1917.
	Mulshi Raiwal	1915	2,236	(*m*)2,181	
	Sub-ghat mixed	1915	378	378	
	Lonavla, Khandala	1903	5,342	(*m*) 4,409	
	Ahmednagar Teak ...	1905	28,131	(*n* 8,876	

FORM NO. 55-A—*Abstract of Control Books for Working Plans for the year 1921-22*—continued.

Division.	Name of Working Plan.	Year in which sanctioned.	Area up to date		Brief statement of reasons for arrears.
			To be worked.	Actually worked.	
1	2	3	4	5	6
SOUTHERN CIRCLE.			Acres.	Acres.	
Kánara, Northern	Supa High Forest Plan, Series I to VII ...	1895	1,12,221	102,906	No new areas given out owing to clear felling work and shortage of contractors. The fellings according to the Plan have come to an end.
	Bhagwati Plan, Blocks VIII, IX and XX ..	1916	12,911	4,747	This Plan has been abandoned and will be worked under the clear felling system.
	Haliyál Teak Pole Plan	1904	13,230	13,230	
	Plan of Block VII-A	1915	368	368	
	Gund Plan Series XI (part)	1896	8,400	.....	No contractors available to work this Series.
Do. Eastern	Yellápur Slopes Plan	1905	4,283	2,949	For want of contractors.
	Yellápur Aboveghat Plan	1905	88,828	69,670	
	Mundgod High Forest Plan	1908	34,624	19,207	
	Mundgod Teak Pole Plan	1909	10,887	10,882	5 acres not cut for poor growth.
	Kirwatti Teak Pole Plan	1916	1,286	1,116	Current year's coupes not sold.
	Bankapur Hangal Plan	1919	4,495	3,188	Some coupes were not sold on account of poor growth.
Do. Central	Ankola High Forest Plan Blocks XXIV, XXV.	1908	14,043 (Area of c. 1 to 11, 15 to 17 & 44 to 53).	11,767 (Area of c 1 to 11, 15, 16, 44 to 48, 51, 52 =11,418 c-19= 218 c-30... 131)	Contract for compartments 48 to 50 was given in 1921-22 and could not be finished. No contractor came forward to undertake either these compartments earlier or compartments 17 to 20 and 53 to 55 on account of increasing cost of labour with which the rates offered did not keep pace. It is not profitable to work these compartments till transport expenditure is reduced.
	Ankola Kumta Coast Fuel Plan ...	1911	6,137	3,105	Coupes 11 of Blocks VII, VIII, IX, XI, XIII and XIV were not sold as they came within the proposed new Minor Forest line of Mr. Collins. No demand for some of the remaining coupes.
	Sirsi Town Fuel Plan	1911	1,244	256	No demand for coupes at Sirsi. Only one or two coupes are worked for Sirsi Fuel Depôt.
	Yekambi-Sonda High Forest Plan ...	1915	14,154 (Area of c. 1 to 7, 12 to 16 & 24 to 29).	10,118 (Area of c. 1 to 7 & 24 to 29).	Held in abeyance under Government orders. Owing to transport difficulty and of difficulty of working out the compartments in Sirsi Range no contractor was willing to undertake the works. Extensions had to be given to old contractors for these reasons.
	Arbail Slopes Plan (High Forest Block XII)	1918	1,277 (Area of c. 15 & 16).	547 (Area of c. 15).	For want of a road logs from compartment 15 were not carted. Felling in compartment 16 not done for want of labour and slackness of contractor.
Do. Southern	Honáwar Tali Palm Plan	1909	11,770·3	11,337·2	The over worked area in 1918-19 will be assimilated in the IV Sub-cycle in 4 equal parts each ¼ being calculated for each year.
	Kasarkod Casuarina Plantation Plan ...	old 1911 Revised 1922	16·2	16·2	The Revised Working Plan sanctioned by the Chief Conservator in his No. 2952 of 4th April 1922 has been put in operation this year.
	Soppinhosalli High Forest Plan ...	1913	6,112	4,280	Compartment 7 is completed. Work is started in compartment 8. During war time work fell behind hand and after that one compartment is worked out annually.
	Chandawar Fuel Plan	1915	1,626	1,290	Up to coupe 7 in the list of main coupes and upto coupe 4A in the Supply coupes are worked out. Contractor failed to supply fuel during 1920-21 and outside wood was purchased at his cost. The fuel of coupe 7 was therefore utilised for 1921-22. Normal working of coupes is difficult owing to low rate of selling prices in the Depôt and increased rate of working.
	Ankola Kumta Coast Plan (Blocks XX, XXI and XXII).	1911	1,296·4	816·4	11 coupes in Block XX, none in Block XXI and 8 in Block XXII are worked. Block XXI is far away. 4 coupes sold last year were not worked for want of road. These will probably be worked this year.
Do. Western	Gund Plan	1896	29,965	9,218	Shortage of labour and want of communication.
	Kalinadi Slopes Plan	1911	7,433	6,281	Compartment 26 is not fully exploited. The period of the contract is till 31st May 1923.
	Supa Fuel Plan	1906	Not prescribed.	7,493	
	Kárwár Fuel Plan	1903	17,3·7	13,972	Blocks XII and XIV are let off for the exercise of privileges. The last few coupes of Block VI, Kadra, were not exploited on account of undergrowth.
	Karwár Casuarina Plantations Plan ...	1911	97	153	Excess due to unregulated fellings for war supply in 1918.
	Kadra, Mardi and Sulgeri Teak Plantation Plan.	1910	713	713	

FORM No. 55-A.—*Abstract of Control Books for Working Plans for the year 1921-22*—concluded.

Division.	Name of Working Plan.	Year in which sanctioned.	Area up to date		Brief statement of reasons for arrears.
			To be worked.	Actually worked.	
1	2	3	4	5	6
SOUTHERN CIRCLE.			Acres.	Acres.	
Belgaum	Golihalli-Godoli Plan (Pole Series I and II)...	1900	4,716	4,716	
	Khánápur Fuel Reserves	1903	43,959	39,190	Difficulty in securing sufficient labour and transport.
	Varkhad Hemadge Plan	1906	2,123	1,758	
	Gokák Fuel Plan	1916	33,485	32,901	Due to coupes remaining unsold.
Dhárwár—Bijápur	Bankapur Hangal Plan (Blocks XI to XV) ...	1918	1,720	1,722	
	Dharwar Plan (Blocks I to VIII) ...	1900	13,757	13,757	
School Division	Kalghatgi Plan	1917	4,722	5,084	
	Dharwar Plan (Blocks I to VIII)... ...	1908	.....	.....	Transferred to Dharwar-Bijapur Division from 1st July 1921.
	Nagargali Plan	1915	2,151	1,544	In arrears for want of labour and unsatisfactory work by contractor.
SIND CIRCLE.					
Sukkur	Revised Working Plan	.....	19,448	19,504	
Shikárpur	Do.	.....	11,291	11,236	
Larkana	Do.	.....	11,523	10,932	The difference is due to erosion and actual measurement on the ground.
Hyderabad	Do.	1916-17	21,069	19,226	
Karáchi	Do.	Do.	25,378	25,347	

FORM No. 56.

FORM No. 56.—*Statement showing communications*

Division.	New works undertaken during the year.													
	Buildings.					Roads and paths.							Other works.	
	Expenditure on				Total expenditure incurred.	Cart roads.		Bridle paths.		Others.		Total length of paths or roads.	Total expenditure incurred.	Expenditure incurred.	Total expenditure on new works
	Head quarter houses.	Rest-houses.	Houses for subordinate establishment.	Others.		Length.	Cost.	Length.	Cost.	Length.	Cost.				
1	2(a)	2(b)	2(c)	2(d)	3	4(a)	4(b)	4(c)	4(d)	4(e)	4(f)	5	6	7	8
NORTHERN CIRCLE.	Rs.	Rs.	Rs.	Rs.	Rs.	Miles.	Rs.	Miles.	Rs.	Miles.	Rs.	Miles.	Rs.	Rs.	Rs.
Direction	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Panch Mahâls ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Surat ...	...	8,619	872	3,301	12,792	16	42,362	...	...	...	...	16	42,362	1,046	56,200
North Thâna ...	300	...	6,802	...	7,602	...	4,542†	...	...	...	...	...	4,542	...	12,144
West Thâna ...	...	...	11,179*	70	11,249	...	...	...	...	...	...	...	...	626	11,875
East Thâna ...	13,632	...	3,935	...	17,567	2	3,205‡	...	...	...	...	2	3,205	1,436	22,208
West Násik	...	4,200	4,974	...	9,174	...	1,001§	...	...	...	...	...	1,001	100	10,275
East Násik	...	...	...	...	...	3	1,630	...	...	...	...	3	1,630	...	1,630
Total, Northern Circle ...	14,432	12,819	27,762	3,371	58,384	21	52,740	...	...	...	...	21	53,740	3,208	1,14,332
CENTRAL CIRCLE.															
East Khándesh ...	...	3,164	...	...	3,164	...	...	...	...	...	...	...	...	...	3,164
North Khándesh ...	...	5,342	...	...	5,342	...	...	...	...	...	...	...	...	...	5,342
West Khándesh ...	...	115	...	...	115	...	...	...	...	...	...	...	...	...	115
Poona ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kolába ...	...	...	2,000	...	2,000	...	...	...	...	...	...	...	...	...	2,000
Sátára ...	...	...	...	...	...	...	...	...	...	...	...	...	...	528	528
Total, Central Circle ...	...	8,621	2,000	...	10,621	...	...	...	...	...	...	...	...	528	11,149
SOUTHERN CIRCLE.															
Direction Division ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Kánara, Northern D. ...	...	4,812	7,352	11,238	23,402	5	40,130	...	2,500	...	34,300	5	76,930	8,371	10,703
Kánara, Eastern D. ...	...	1,478	106	58	1,636	46	28,052	...	...	...	...	46	28,052	483	30,171
Kánara, Central D. ...	1,320	251	374	...	1,945	4	4,016	...	...	...	...	4	4,016	317	6,278
Kánara, Southern D....	...	3,000	2,557	...	5,557	4	4,356	...	...	...	...	4	4,356	...	9,913
Kánara, Western D. ...	...	...	...	...	...	...	1,636	...	...	...	...	...	1,636	...	1,636
Belgaum ...	3,189	....	116	...	3,305	12	9,986	...	...	...	...	12	9,986	...	13,291
Dhárwár-Bijapur ...	6,513	745	774	...	8,032	...	...	...	...	...	...	...	...	370	8,402
School Division ...	...	...	1,857	...	1,857	5	5,080	...	...	...	...	5	5,080	...	6,937
Total, Southern Circle ...	11,022	10,286	13,130	11,296	45,734	76	93,256	...	2,500	...	34,300	76	1,30,056	9,471	1,85,261
SIND CIRCLE.															
Sukkur ...	...	...	8,827	...	8,827	...	...	...	...	...	...	...	...	321	9,148
Shikárpur ...	...	...	...	...	-	...	...	...	...	...	...	...	...	...	...
Lárkána ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hyderabad ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Karáchi ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total, Sind Circle ...	...	...	8,827	...	8,827	...	...	...	...	...	...	...	...	321	9,148
Grand Total Presidency...	25,454	31,726	51,719	14,667	1,23,566	97	1,45,996	...	2,500	...	34,300	97	1,82,796	13,528	3,19,890

and buildings during the year 1921-22.

Repairs executed during the year.														
Buildings.					Roads and paths.								Other works.		
Expenditure on					Cart roads		Bridle paths.		Others.						
Head quarter houses.	Rest-houses.	Houses for subordinate establishment.	Others.	Total expenditure incurred.	Length.	Cost.	Length.	Cost	Length.	Cost.	Total length of paths or roads.	Total expenditure incurred.	Expenditure incurred.	Total expenditure incurred.	Remarks.
9(a)	9(b)	9(c)	9(d)	10	11(a)	11(b)	11(c)	11(d)	11(e)	11(f)	12	13	14	15	16
Rs.	Rs.	Rs.	Rs.	Rs.	Miles.	Rs.	Miles.	Rs.	Miles.	Rs.	Miles.	Rs.	Rs.	Rs.	
...	...	...	...	...	...	79	...	...	...	...	...	79	45	124	Paid for a realignment.
2,457	...	43	...	2,500	...	...	...	...	...	...	...	...	499	2,999	
...	460	3,080	...	3,540	295	4,505	...	...	...	...	295	4,505	1,036	9,081	
191	...	723	524	1,439	4	32	...	...	...	...	4	32	7	1,478	† Cutting work in places over a length of 2½ miles and bridge work.
...	...	677	...	677	12	621	...	...	...	...	12	621	67	1,365	* Contribution for a Chavdi.
605	...	1,655	...	2,260	34	1,988	...	...	...	...	34	1,988	260	4,508	‡ Includes cost of material for a causeway.
97	399	...	...	496	14	1,791¶	...	...	...	...	14	1,791	12	2,299	§ Realignment of Goldari-ozar.
...	..	32	...	32	1	15	...	...	...	...	1	15	...	37	¶ Cash contribution of Rs. 1,100 for the maintenance of Harsul-Goldari Road.
3,350	859	6,200	524	10,934	360	9,031	...	...	...	...	360	9,031	1,926	21,891	
...	1,226	838	175	3,239	72	592	...	...	...	...	72	592	92	2,923	
...	138	140	248	535	16	224	42	165	...	...	58	389	230	1,164	
65	38	542	349	994	9	438	...	...	...	...	9	438	118	1,550	
19	201	984	...	1,297	7	92	...	...	...	...	7	92	5	1,394	
...	778	265	645	1,688	7	134	...	...	...	...	7	134	...	1,822	
149	792	2	...	931	...	...	1	195	...	...	1	195	35	1,164	
221	3,266	2,780	1,417	7,687	111	1,490	43	360	...	...	154	1,850	480	10,017	
60	...	...	...	60	...	...	...	...	...	...	...	...	14	74	
155	154	392	55	756	...	14,980**	...	...	...	...	...	14,980**	1,888	17,624	** Includes Rs. 10,000 contributed to Local Boards.
...	823	1,144	297	2,264	64	8,200†	...	...	...	86	64	8,286††	1,020‡‡	11,570	†† Includes Rs. 5,000 contribution to Local Boards on account of roads.
87	195	380	391	1,053	8	1,209	...	...	...	...	8	1,209	198	2,460	‡‡ Includes Rs. 509 telephone rent.
...	71	473	345	889	10	1,323	...	...	...	...	10	1,323	50	2,262	
...	482	1,322	...	1,804	...	24,339§§	...	...	...	...	...	24,339§§	96	26,239	§§ Includes contribution to Local Boards Rs. 10,000.
428	520	378	17	1,343	69	4,105	...	...	...	...	69	4,105	212	5,660	
1,034	...	8	...	1,042	...	58	...	...	...	...	...	58	...	1,100	
...	571	540	218	1,332	...	...	...	...	...	...	...	...	30	1,362	
1,764	2,819	4,637	1,323	10,543	151	54,214	...	...	...	86	151	54,300	3,508	68,351	
...	...	19	...	19	...	...	...	...	...	...	...	...	95	114	
...	...	208	...	208	...	...	...	...	...	...	...	...	323	531	
37	...	316	17	370	...	...	...	...	...	...	...	...	1,400	1,770	
616	613	399	...	1,628	...	...	...	...	...	...	...	...	...	1,028	
1,119	88	...	...	1,237	...	...	...	...	...	...	...	...	2,858	4,095	
1,802	701	942	17	3,462	...	...	...	...	...	...	...	...	4,676	8,138	
7,140	7,645	14,559	3,281	32,625	622	64,735	43	360	...	86	665	65,131	10,500	1,08,397	

FORM No. 57.—*Statement showing register of breaches of Forest*

Forest Division.	Cases pending from previous year.			New cases of the year.														
				Injury to forest by fire.			Unauthorized felling.			Unauthorized grazing.			Other offences.			Total.		
	A.	B.	All.	A.	B.	C.	A.	B.	C.	A.	B.	C.	A.	B.	C.	A.	B.	C.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
NORTHERN CIRCLE.																		
Panch Mahâls ...	5(*a*)	(*a*)262	267	1	9	28	9	653	195	8	796	3	1	36	1	19	1,494	227
Surat ...	...	12	12	...	3	2	...	14	5	...	21	...	...	4	...	...	42	7
North Thâna ...	...	22	22	...	6	74	3	96	62	...	210	...	...	6	...	3	318	136
West Thâna ...	14(*b*)	55	69	22	9	87	18	247	56	47	367	7	8	50	2	95	673	152
East Thâna ...	11	... (*a-c*)	11	6	17	95	8	252	34	12	284	2	2	72	...	28	625	131
West Násik ...	8(*a*)	87	95	2	10	39	1	164	8	...	126	...	...	35	...	3	335	47
East Násik ...	9(*b*)	(*c*) 3	12	1	23	19	3	537	51	3	422	...	...	30	1	7	1,012	71
Total, Northern Circle ...	47	441	488	32	77	344	42	1,963	411	70	2,226	12	11	233	4	155	4,499	771
CENTRAL CIRCLE.																		
East Khándesh ...	24(*a*)	(*a-c-e*) 180	204	1	10	54	27	227	56	11	268	4	15	204	38	54	709	152
North Khándesh ...	13(*a*)	(*a-c-e*) 126	139	12	18	41	24	188	41	1	117	...	7	168	...	44	491	82
West Khándesh ...	...	117	117	11	7	56	3	502	72	...	175	...	2	48	...	16	732	128
Poona ...	16	(*c*) 248	264	...	22	77	12	539	144	3	589	2	8	149	2	23	1,299	225
Kolába ...	7(*a*)	(*a*) 46	53	11	23	59	15	266	137	3	258	...	1	36	...	30	583	196
Sátára ...	28(*a*)	(*a*) 70	98	3	36	114	12	531	30	16	561	...	9	163	5	40	1,291	149
Total, Central Circle ...	88	787	875	38	116	401	93	2,253	480	34	1,968	6	42	768	45	207	5,105	932
SOUTHERN CIRCLE.																		
Kánara, Northern ...	3(*a*)	(*a*) 6	9	1	...	34	...	10	4	1	69	1	...	...	...	2	79	39
Kánara, Eastern ...	...	8 (*a-e*)	8	...	4	58	1	34	14	1	35	...	...	1	...	2	74	72
Kánara, Central ...	3(*a*)	33	36	3	4	333	10	103	43	2	5	...	...	11	...	15	123	376
Kánara, Southern ...	36	160	196	5	6	108	11	174	73	...	...	4	1	24	12	17	204	197
Kánara, Western ...	4(*f*)	(*f*) 10	14	1	2	161	1	196	35	1	27	3	2	5	7	5	230	206
Belgaum ...	11	131	142	2	3	133	4	254	52	2	342	...	2	28	1	10	627	186
Dhárwár-Bijápur ...	10(*f*)	(*f*) 38	48	1	...	37	2	258	39	1	376	3	...	19	...	4	653	79
School Division ...	4	22	26	...	...	18	...	6	...	1	20	...	...	1	...	1	27	18
Total, Southern Circle ...	71	408	479	13	19	382	29	1,035	260	9	874	11	5	89	20	56	2,017	1,173
SIND CIRCLE.																		
Sukkur ...	(*b-f*) 10	(*f*) 95	105	...	3	58	18	360	129	1	352	...	1	3	...	20	718	187
Shikárpur ...	4(*d*)	...	4	...	5	33	4	228	59	...	250	...	...	5	...	4	488	92
Lárkána ...	17(*b*)	239	256	...	...	19	2	96	5	1	162	...	7	7	...	10	265	24
Hyderabad ...	(*b-d*) 36	90	126	...	...	16	30	195	17	16	299	...	5	15	...	51	509	33
Karáchi ...	4(*b*)	...	4	...	...	13	...	74	3	1	66	..	2	...	...	3	140	16
Total, Sind Circle ...	71	424	495	...	8	139	54	953	213	19	1,129	...	15	30	...	88	2,120	352
Grand Total Presidency ...	277	2,060	2,337	83	220	1,766	218	6,204	1,364	132	6,197	29	73	1,120	69	506	13,741	3,228

(*A*) Means cases taken into court. (*B*) Means cases compounded and let off with warning.

(*C*) Do. Undetected

Rules during the year 1921-22.

Total cases.				Disposed of during the year.														Cases pending at the close of the year.			Remarks.
				Convictions.				Acquittals.				Total.									
				Cases.		Persons.		Cases.		Persons.		Cases.			Persons.						
A.	B.	C.	All.	A.	B	A.	B.	A.	B.	A.	B.	A.	B.	All.	A.	B.	All.	A.	B.	All.	
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
34	1,736	227	2,007	23	1,657	73	4,155	1	...	2	...	24	1,657	1,681	74	4,155	4,229	...	99	99	
...	54	7	61	...	53	...	133	...	...	...	...	...	53	53	...	133	133	...	1	1	
3	34	136	473	2	320	4	688	...	...	...	...	2	320	322	4	688	692	1	20	21	
97	728	154	989	65	715	148	1,942	6	...	18	..	71	715	786	166	1,942	2,108	36	13	49	
39	625	131	795	21	6.5	35	1,992	8	...	23	...	29	625	654	58	1,992	2,050	10	...	10	
11	386	83	480	5	342	6	1,144	3	...	10	...	8	342	350	16	1,144	1,160	3	38	41	
15	1,015	72	1,102	14	963	64	2,375	1	...	1	...	15	963	978	65	2,375	2,440	...	52	52	
339	4,898	816	5,913	130	4,675	329	12,429	19	...	54	...	149	4,675	4,824	383	12,429	12,812	50	223	273	
78	857	154	1,119	53	731	141	3,498	8	...	53	...	61	731	795	194	3,498	3,692	14	156	170	
57	569	110	736	39	478	88	1,387	...	...	...	...	39	478	517	88	1,387	1,475	18	111	129	
16	810	128	953	15	815	32	2,028	1	...	2	...	16	815	831	34	2,028	2,062	...	34	34	
30	1,491	275	1,811	36	1,382	82	3,441	1	...	1	...	37	1,382	1,419	83	3,441	3,524	2	115	117	
31	620	196	862	30	558	47	1,381	3	...	3	...	33	558	591	50	1,381	1,431	4	71	75	
68	1,351	119	1,578	53	1,298	149	2,799	8	...	20	...	61	1,298	1,359	169	2,799	2,968	7	63	70	
545	5,412	1,012	7,119	210	5,262	539	14,534	21	...	79	...	231	5,262	5,512	618	14,534	15,152	45	550	595	
	85	39	129	5	68	15	159	...	...	...	...	5	68	73	15	159	174	...	17	17	
2	82	72	156	2	78	2	251	...	...	...	...	2	79	80	2	251	253	...	4	4	
13	157	373	553	12	134	25	273	1	...	3	...	13	134	147	28	273	301	5	22	27	
51	384	107	614	20	192	51	120	2	...	41	...	31	292	323	92	120	212	22	72	94	
9	270	206	485	5	210	11	514	2	...	4	...	7	210	217	15	514	529	2	...	2	
21	778	183	982	7	601	15	1,673	7	...	15	...	14	601	615	30	1,673	1,703	7	157	164	
74	691	79	784	10	617	32	2,158	2	...	6	...	12	617	629	45	2,158	2,203	2	74	76	
5	19	18	72	2	46	2	79	2	...	4	...	4	46	50	6	79	85	1	3	4	
327	2,427	1,173	3,725	72	2,076	180	5,227	16	...	73	...	88	2,076	2,164	239	5,227	5,466	39	349	388	
57	813	199	1,069	15	699	34	739	4	...	8	...	19	699	718	42	739	781	8	114	122	
8	438	92	538	4	443	9	635	1	...	9	...	5	443	448	18	635	653	3	45	48	
17	504	34	555	15	426	73	459	1	...	4	...	16	426	442	77	459	536	1	78	79	
86	540	34	720	26	478	49	573	...	...	...	...	26	478	504	49	553	602	60	121	181	
6	150	17	173	1	140	1	169	2	...	7	...	3	140	143	8	169	177	3	...	3	
144	2,544	367	3,055	61	2,186	166	2,555	8	...	28	...	69	2,186	2,255	194	2,555	2,749	75	378	453	
785	15,079	3,368	19,812	492	14,199	1,194	34,745	64	...	234	...	556	14,199	14,755	1,428	34,745	36,173	209	1,48[illegible]	[illegible]	

(a) 29 Cases transferred from B to A.
(b) 15 Cases transferred from A. to C. as the prosecutions were subsequently withdrawn.
(c) 122 Cases transferred from B to C.
(d) 2 Cases under A written off.
(e) 10 Cases under B written off.
(f) 8 Cases transferred from A to B.

FORM No. 58.—*Area of Forest Tracts protected from fire during 1921-1922.*

Division.	Forest Range.	Year in which protection commenced.	Area attempted to be protected in 1920-1921	Area actually protected in 1920-1921.	Area attempted to be protected. in 1921-1922.	Failures.	Area actually protected. in 1921-1922.	Cost.	Remarks.
1	2	3	4	5	6	7	8	9	10
NORTHERN CIRCLE.			Acres.	Acres.	Acres.	Acres.	Acres.	Rs.	
Panch Mahals	South Godhra Range	1878-79	51,828	51,004	51,828	254	51,574	2,832	
	North do.	„	37,428	37,142	37,428	88	37,340		
	Kalol	„	21,527	20,148	21,527	60	21,467		
	Halol	„	28,264	26,419	28,264	214	28,050		
	Dohad	„	46,242	40,929	46,242	514	45,728		
	Jhalod	„	26,862	24,387	26,863	14	26,849		
	Total	...	212,151	200,029	212,152	1,144	211,008	...	
Surat	Dangs Range	1878-79	434,820	434,767	433,564	647	432,917	7,800	
	Mandvi	„	40,887	40,883	40,889	3	40,886		
	Bulsar-Chikhli	„	2,807	2,807	2,810	1	2,809		
	Total	...	478,514	478,457	477,263	651	476,612	...	
North Thana	Sanjan Range	1878-79	31,245	30,227	31,245	95	31,150	3,174	
	Udhwa	„	35,712	34,923	35,712	3,007	32,705		
	Kasa	„	62,479	61,187	62,479	2,881	59,598		
	Palghar	„	28,958	27,742	28,943	3,495	25,448		
	Manor	„	29,120	28,625	29,120	2,659	26,461		
	Dahisar	„	33,836	32,459	33,836	3,948	29,888		
	Total	...	221,350	215,163	221,335*	16,085	205,250	...	
West Thana	Bassein	1878-79	41,037	40,561	38,888	1,027	37,861	1,955	
	West Wada	„	32,919	31,995	32,919	3,682	29,237		
	Bhiwandi	„	43,970	41,093	40,152	3,975	36,177		
	Salsette	„	14,808	14,410	14,736	1,065	13,671		
	Kalyan	„	33,438	31,683	31,690	4,000	27,690		
	West Murbad	„	26,480	24,378	26,480	1,432	25,048		
	Total	...	192,652	184,120	184,865*	15,181	169,684	...	
East Thana	North Shahapur	1878-79	45,600	40,967	45,600	6,583	39,017	3,217	
	South do.	„	24,645	22,970	24,645	3,436	21,209		
	East Murbad	„	29,370	28,921	29,370	75	29,295		
	Khardi	„	52,354	51,516	52,354	2,846	49,508		
	Mokhada	„	41,838	41,341	41,838	916	40,922		
	East Wada	„	45,809	44,673	45,809	3,770	42,039		
	Igatpuri	„	53,602	51,755	53,602	574	53,028		
	Total	...	293,218	282,143	293,218	18,200	275,018	...	
West Nasik	Nasik	1878-79	51,883	48,753	51,883	844	51,039	97	
	Dindori	„	53,736	47,753	53,736	2,007	51,729		
	Peint	„	101,893	101,523	101,892	1,216	100,676		
	Total	...	207,512	198,029.	207,511	4,067	203,444	...	
East Nasik	Kalwan	1878-79	107,032	105,438	107,066	549	106,517	172	
	Baglan	„	119,995	113,645	120,026	1,600	118,426		
	Malegaon	„	89,139	89,139	89,143	23	89,120		
	Chandwad	„	30,112	30,112	30,113	109	30,004		
	Nandgaon	„	77,586	77,586	77,586	134	77,452		
	Sinnar	„	31,801	31,596	31,620	59	31,561		
	Yeola	„	25,831	25,831	25,570	41	25,529		
	Total	...	481,296	473,347	481,124	2,515	478,609	...	
	Total, Northern Circle.	...	2,086,693	2,031,288	2,077,468	57,843	2,019,625	19,247	

* Exclusive of protected forest in charge of the Forest Department.

FORM NO. 58.—*Area of Forest Tracts protected from fire during 1921-1922.*

Division.	Forest Range.	Year in which protection commenced.	Area attempted to be protected in 1920-1921.	Area actually protected in 1920-1921.	Area attempted to be protected in 1921-1922.	Failures.	Area actually protected in 1921-1922.	Cost.	Remarks.
1	2	3	4	5	6	7	8	9	10
CENTRAL CIRCLE.			Acres.	Acres.	Acres.	Acres.	Acres.	Rs.	
East Khándesh ...	Chálisgaon	1878-79	38,250	38,110	38,250	1,096	37,154	99	
	Chopda	„	107,700	92,320	107,700	1,619	106,081	1,010	
	Edlabad	„	41,346	39,032	41,346	2,160	39,186	120	
	Jalgaon	„	38,799	37,824	38,799	966	37,833	.....	
	Jámner	„	64,390	63,160	64,390	200	64,190	.....	
	Parola	„	43,897	43,724	43,897	228	43,669	.....	
	Ráver ...	„	76,210	68,029	76,210	1,985	74,225	548	
	Yáwal	„	78,000	23,595	78,000	520	77,480	482	
	Total ...	...	488,592	405,794	488,592	8,774	479,818	2,259	
North Khándesh ...	Akráni	1878-79	194,683	171,683	194,683	7,000	187,683	235	
	Taloda	„	71,161	51,391	71,510	11,296	60,214	461	
	Sháháda	„	83,663	66,635	83,663	6,203	77,460	403	
	Shirpur, East ...	„	206,772	183,243	207,267	47,884	159,383	846	
	Do. West ...								
	Total ...	...	556,279	472,952	557,123	72,383	484,740	1,945	
West Khándesh ...	Dhulia	1878-79	75,718	75,693	75,718	11	75,707	.....	
	Nandurbár	„	70,167	67,982	70,167	225	69,942	.....	
	Nawápur	„	70,178	68,336	70,181	5,808	64,373	.....	
	Sákri and Pimpalner.	„	146,172	130,346	146,172	11,963	134,209	.....	
	Total ...	...	362,235	342,357	362,238	18,007	344,231	5,092	
Poona	Poona	1879-80	26,502	19,538	26,559	322	26,237	135	
Kolába ...	Alibág	1889-90	27,491	26,850	27,491	391	27,100	.....	
	Pen, Panwel and Kháláp ur.	„	79,418	76,870	79,418	4,768	74,650	14	
	Karjat	„	32,521	31,677	32,521	581	31,940	98	
	Nágothna	„	35,185	35,096	35,185	175	35,010	.....	
	Roha	„	25,270	25,052	25,270	411	24,859	.....	
	Kolad	„	22,886	22,571	22,886	103	22,783	.....	
	Mángaon	„	17,415	17,203	17,415	52	17,363	.....	
	Mahád	„	26,123	26,012	26,123	320	25,803	.....	
	Dápoli	„	2,269	2,265	2,273	...	2,273	.....	
	Mátherán	„	*1,061	1,061	1,061	...	1,061	18	
	Total ...	...	269,639	264,657	269,643	6,801	262,842	130	
Satara	Mahábleshwar ...	1909-10	11,983	11,512	11,983	1,330	10,653	98	
	Total, Central Circle.	...	1,715,230	1,516,810	1,716,138	107,617	1,608,521	9,659	

FORM NO. 58.—*Area of Forest Tracts protected from fire during 1921-1922.*

Division.	Forest Range.	Year in which protection commenced.	Area attempted to be protected in 1920-1921.	Area actually protected in 1920-1921.	Area attempted to be protected in 1921-1922.	Failures.	Area actually protected in 1921-1922.	Cost.	Remarks.
1	2	3	4	5	6	7	8	9	
SOUTHERN CIRCLE.			Acres.	Acres.	Acres.	Acres.	Acres.	Rs.	
Kánara, Northern ...	Haliyál	1887-88	34,933	29,418	31,147	3,531	27,616	31	*
	Sambrani	„	50,537	24,084	54,387	2,525	51,862	39	
	Dandeli	„	53,706	33,972	53,704	20	53,684	1,050	
	Virnoli	„	46,825	27,063	46,080	1,020	45,060	1,246	
	Kulgi	„	29,261	...	29,261	...	29,261	810	
	Total ...	...	215,262	114,537	214,579	7,096	207,183	3,176	
Kánara, Eastern ...	Yellápur	1888-89	114,763	110,284	114,763	18	114,745	45	
	Kirwatti	„	51,586	19,555	51,586	20,195	31,391	287	
	Bhartnalli ...	„	64,085	47,659	64,085	...	64,085	.....	
	Dhundshi	„	24,141	7,155	24,141	2,995	21,146	300	
	Mundgod	„	64,303	21,276	64,303	5,617	58,686	1,227	
	Katur	„	42,343	17,662	42,343	2,251	40,092	117	
	Total ...	...	361,221	223,591	361,221	31,076	330,145	2,382	
Kánara, Central ...	Sirsi	1906-07	215,273	193,837	215,273	27,495	187,778	22	
	Ankola	„	221,806	221,241	221,806	7,583	214,223	719	
	Ramanguli	„							
	Madangeri	„	55,898	49,592	55,898	755	55,143	183	
	Total ...	...	492,977	464,670	492,977	35,833	457,144	924	
Kánara, Southern ...	Siddápur	1910-11	141,280	132,429	141,280	3,715	137,565	45	†
	Honávar	1900-01	94,025	93,447	94,025	130	93,895	99	
	Bhatkal	1899-00	64,089	63,167	64,089	585	63,504	156	
	Kumta	1900-01	102,088	100,781	102,088	294	101,794	36	
	Total ...	...	401,482	389,824	401,482	4,724	396,758	336	
Kánara, Western ...	Kárwár	1887-88	77,617	76,961	77,617	800	76,817	565	
	Kadra	„	210,000	201,761	210,000	13,955	196,045	1,129	
	Supa	1888-89	235,391	223,936	235,391	21,048	214,343	842	
	Gund	„	23,483	16,165	23,483	5,568	17,915	680	
	Total ...	...	546,491‡	518,823‡	546,491	41,371	505,120	3,216	
Belgaum	Patne	1888-89	71,914	64,103	73,850	9,254	64,596	213	
	Merde	1886-87	39,663	26,837	39,689	7,306	32,383	888	
	Khánápur	1910-11	77,917	46,032	77,917	6,524	71,393	900	
	Jamboti	1889-90	97,717	94,947	105,259	1,520	103,739	179	
	Gujnal	1894-95	70,431	65,694	38,146	3,621	34,525	429	
	Gokak	„	69,157	69,059	101,424	21	101,403	269§	
	Total ...	...	426,799	366,672	436,285	28,246	408,039	2,878	
Dhárwár-Bijápur ...	Dhárwár	1889-90	21,148	20,136	21,125	175	44,281	116	
	Kalkeri¶	1887-88	23,331	11,956	23,331				
	Hangal	„	12,850	9,713	12,871	428	12,443	275	
	Kod	1907-08	41,378	35,001	41,378	2,047	39,331	120	
	Bádámi	1889-90	90,066	89,891	90,083	83	90,000	54	
	Bágalkot	„	48,838	48,779	48,810	68	48,742	93	
	Total ...	...	237,611	215,478	237,598	2,801	234,797	658	
School Division ...	Kalghatgi	1888-89	42,313	30,537	42,289	6,446	35,843	518‖	
	Nagargali	1886-87	8,885	8,423	8,885	...	8,885		
	Total ...	...	51,198	38,960	51,174	6,446	44,728	518	
	Total, Southern Circle.	...	2,733,041	2,332,555	2,741,807	157,593	2,584,214	14,088	

* The open coupes in Teak Pole areas departmentally burnt have been included in the area protected.

† Except coupes under regeneration (both from coppice and artificial sowing and planting) the rest of the area was not fire-protected. In Siddapur only the sandalwood area was fire traced, *viz.*, between the Sirsi-Jog road and the Mysore Kanara frontier line. The figures in the statement show only the areas not burnt. The major part of this Division is evergreen and semigreen forest.

‡ Errors rectified on comparing areas with Forest Settlement Register.

§ Includes Rs. 21 for presentation of a coat for helping in fire protection.

¶ Transferred from School Division.

‖ Rs. 110 are included in Dharwar-Bijapur Division in Accountant General's Summary but has not been done so in this form as Kalghatgi was in the School Division till 31st March 1922.

FORM No. 58.—*Area of Forest Tracts protected from fire during 1921-1922*—concluded.

Division.	Forest Range.	Year in which protection commenced.	Area attempted to be protected in 1920-1921.	Area actually protected in 1920-1921.	Area attempted to be protected in 1921-1922.	Failures.	Area actually protected in 1921-1922.	Cost.	Remarks
1	2	3	4	5	6	7	8	9	10
SIND CIRCLE.			Acres.	Acres.	Acres.	Acres.	Acres.	Rs.	
Sukkur	Mirpur	1903	32,814	32,277	32,814	817	31,997	.....	
	Ghotki	„	24,620	24,580	24,620	319	24,301	132	
	Pano Akil	„	54,541	54,491	54,541	60	54,481	890	
	Sukkur	„	36,949	36,804	36,949	75	36,874	.....	
	Rohri	„	24,600	24,600	24,600	86	24,514	684	
	Total	...	173,524	172,752	173,524	1,357	172,167	1,706	
Shikárpur	Ruk	1878-79	12,560	12,420	12,900	254	12,646	1,040	
	Shikarpur	1885-86	...	...	200	19	181	.....	
	Kashmore	1895-96	1,560	1,560	1,500	133	1,367	.....	
	Total	...	14,120	13,980	14,600	406	14,194	1,040	
Lárkána	Lárkána	1918	18,792	18,730	18,772	270	18,502	400	
	Radhan	„	15,788	15,775	15,748	15	15,733	100	
	Kandiáro	1915	16,688	16,687	16,618	122	16,496	200	
	Total	...	51,268	51,192	51,138	407	50,731	700	
Hyderabad	Hyderabad	1915-16	...	...	...	...	...	.....	
	Miáni	„	4,235	4,235	4,235	...	4,235	.....	
	Hála	„	13,558	13,558	13,844	32	13,812	.....	
	Sakrand	„	7,400	7,400	8,000	614	7,386	.....	
	Manjhand	„	...	...	...	...	...	.....	
	Total	...	25,193	25,193	26,079	646	25,433	.....	
Karachi	Katiar	1912-13	2,368*	2,368	2,368	...	2,368	56	
	Mulchand	„	29,100	28,634	29,100	152	28,948	45	
	Sujawal	„	14,098	14,045	14,098	3	14,095	50	
	Tatta	„	21,820	21,818	21,820	31	21,789	45	
	Total	...	67,386	66,865	67,386	186	67,209	196	
	Total, Sind Circle	...	331,491	329,982	332,727	3,002	329,725	3,642	
	GRAND TOTAL, PRESIDENCY	...	6,866,455	6,210,635	6,868,140	326,055	6,542,085	46,636	

* Previous years' mistake has been rectified in columns 4 and 5.

FORM No. 59.—*Causes of*

Division.	(A) Fires caused by accident or through carelessness in burning fire lines.		(B) Fires entering the forests by crossing exterior fire-traces.		(C) FIRES BEGINNING INSIDE THE							
					Owing to carelessness or accident.							
					By workmen employed in the forests, by purchasers, cutters, etc.		By villagers, travellers, etc., passing through the forests.		By railway engines.		By lightning or by fire-balloons.	
	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.
1	2	3	4	5	6	7	8	9	10	11	12	13
NORTHERN CIRCLE.												
Panch Maháls	...	...	...	...	3	7	3	105	...	...	...	...
Surat	...	...	2	501	...	...	1	3	...	...	...	...
North Thána	...	...	6	436	...	...	...	...	...	...	...	...
West do.	1	1	29	2,037	1	...	3	...	2	200	...	...
East do.	...	...	14	845	4	710	4	903	...	...	...	...
West Násik	8	595	...	...	...	...	3	331	...	...	...	...
East do.	1	10	...	...	...	...	8	291	2	26	...	...
Total, Northern Circle ...	10	606	51	3,819	8	717	22	1,633	4	226	...	...
CENTRAL CIRCLE.												
East Khándesh	4	232	12	2,533	1	1,500	29	3,227	...	...	...	...
North do.	...	...	8	13,075	...	...	19	21,002	...	...	..	...
West do.	...	...	11	1,839	...	...	11	3,215	..	...	...	...
Poona	...	...	14	809	5	74	35	1,570	3	15	..	...
Kolába	...	...	31	1,243	1	100	28	1,972	2	40	...	...
Sátára	...	...	14	509	...	...	35	629	...	.	...	...
Total, Central Circle ...	4	232	90	20,008	7	1,674	157	31,615	5	55	...	...
SOUTHERN CIRCLE.												
Kánara, Northern ...	1	2	2	30	...	...	3	1,500	3	20	...	...
Do. Eastern	11	1,225	9	1,875	6	975	15	3,838	...	..	...	...
Do. Central	2	130	22	2,732	3	126	85	8,633	...	...	...	...
Do. Southern	...	...	...	...	...	...	...	...	...	...	...	...
Do. Western	...	...	...	...	...	...	16	1,236	5	189	...	...
Belgaum	1	1,649	3	630	...	...	89	14,366	2	13	...	...
Dhárwár-Bijápur	1	5	...	...	...	...	7	300	...	...	...	...
School Division	...	...	6	2,140	...	...	2	710	...	..	...	...
Total, Southern Circle ..	16	3,011	42	7,407	9	1,101	217	30,583	10	222	...	...
SIND CIRCLE.												
Sukkur	...	...	...	...	7	137	1	1	...	...	...	...
Shikarpur	...	...	...	...	5	30	3	42	...	...	...	...
Lárkána	...	...	5	20	...	...	2	74	...	...	...	..
Hyderabad	...	...	...	...	...	...	...	...	...	...	...	...
Karachi	...	...	...	...	...	...	2	13	...	...	...	...
Total, Sind Circle ...	...	...	5	20	12	167	8	130	...	...	...	...
GRAND TOTAL, PRESIDENCY...	30	3,849	188	31,254	36	3,659	404	63,961	19	503	...	...

Forest Fires during 1921-22.

Reserve or fire-traced Area.												
By Intentional Firing.								Causes Unknown.		Total (A), (B) and (C).		Remarks.
In order to obtain new grass.		In order to turn out game or to reduce cover.		Maliciously fired.		Total.						
No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	No. of fires.	Area burnt in acres.	
14	15	16	17	18	19	20	21	22	23	24	25	26
...		3	86	13	413	22	611	16	533	38	1,144	
...	...	1	5	1	142	3	150	...	...	5	651	No area was burnt in 4 cases—offences against fire rules.
...	...	1	110	...	...	1	110	73	15,539	80	16,085	
...	...	...	...	...		6	200	82	12,943	118	15,181	
...	...	...	...	1	750	9	2,363	95	14,992	118	18,200	
.	...	1	5	...	...	4	336	39	3,136	51	4,067	
...		...	...		...	10	317	32	2,188	43	2,515	
...	...	6	206	15	1,305	55	4,087	337	49,331	453	57,843	
...	...	...	...	...	...	30	4,727	19	1,282	65	8,774	
2	4,000	...	...	1	500	22	25,502	41	33,806	71	72,383	
...	...	9	3,398	...	...	20	6,613	43	9,555	74	18,007	
...	...	3	126	1	5	47	1,790	38	1,522	99	4,121	
...	...	6	155	...	...	37	2,267	25	3,291	93	6,801	
...	...	...	...	...	...	35	629	104	3,688	153	4,826	
2	4,000	18	3,679	2	505	191	41,528	270	53,144	555	114,912	
...	...	...	...	5	1 284	11	2,804	21	4,260	35	7,096	
...	...	...	...	9	5,650	30	10,463	12	17,513	62	31,076	
1	40	1	200	5	1,219	95	10,218	221	22,753	340	35,833	*Chiefly from Mysore.
2	100	...	...	...	...	2	100	117	4,624	119	4,724	
...	...	12	958	...	...	33	2,383	131	38 988	164	41,371	
42	11,388	...	...	...		133	25,767	1	200	138	28,246	
...	...	...	...	...	...	7	300	30	2,496	38	2.801	
...	...	...	...	...	...	2	710	10	3,596	18	6,446	
45	11,528	13	1,158	19	8,153	313	52,745	543	94,430	914	157,593	
5	202	...	...	...	...	13	340	48	1,017	61	1,357	
3	116	...	...	...	...	11	188	27	218	38	406	
5	116	...	...	...	...	7	190	7	197	19	407	
...	...	...	...	...	...	...	...	16	646	16	646	
3	58	...	...	...	...	5	71	8	115	13	186	
16	492	...	...	...	...	36	789	106	2,193	147	3,002	
63	16,020	37	5,043	36	9,963	595	99,149	1,256	199,098	2,069	333,350	

FORM NO. 59A.—*Statement showing the forest areas continuously immune from fire for a period of seven years.* (*G. R., R. D., No. 248, dated 12th January 1904.*)

Division.	Total forest area of the Division in charge of the Forest Department.	Extent of valuable forest for which continuous protection from fire is desirable.	Proportion of valuable forest which has been continuously protected from fire for seven years.	Extent of forest naturally immune from fire.	Extent of forest burnt during the year.		
					Open forest.	Closed forest.	Total.
1	2	3	4	5	6	7	8
NORTHERN CIRCLE.	Acres.	Acres.	Acres, per cent.	Acres.	Acres.	Acres.	Acres.
Panch Mahâls	212,151	212,151	198,773 or 93·6	.....	376	768	1,144
Surat	477,263	477,263	444,384 or 93·1	.....	651	.....	651
North Thâna	221,722	221,335*	178,232 or 80·5	*Nil.*	11,492	4,593	16,085
West do.	192,669	184,865*	152,195 or 82·3	1,500	9,371	580	15,181
East do.	293,218	293,218	179,132 or 64·0	4,356,	6,211	11,989	18,200
West Násik	207,511	207,511	.....	26,661	2,795	1,272	4,067
East do.	481,124	481,124	436,450 or 90·7	.....	2,025	490	2,515
Total, Northern Circle ...	2,085,659	2,077,468	.....	.....	32,921	24,922	57,843
CENTRAL CIRCLE.							
East Khándesh	488,528		Information not available.				
North do.	557,125	557,125	185,708 or 33	*Nil.*	52,913	19,470	72,383
West do.	396,912	221,518	64,407 or 29	*Nil.*	15,842	2,165	18,007
Poona	366,372	274,418	226,241 or 82	88,892	2,745	1,375	4,120
Sátára	269,643	269,643	248,262 or 92	5,553	4,814	1,987	6,801
Kolába	321,052		Information not available.				
Total, Central Circle ...	2,409,632	.....	.....	.....	.....	.....	.....
SOUTHERN CIRCLE.							
Kánara Northern	214,580	203,466	74,140 or 36	500	.....	7,096	7,096
Do. Eastern	362,536	360,460	47,500 or 13	6,000	.....	31,076	31,076
Do. Central	520,766	492,977	422,872 or 86	4,233	31,719	4,114	35,833
Do. Southern	464,255	464,255	200,000 or 43	109,180	3,380	1,344	4,724
Do. Western	546,491	130,808	71,571 or 55	52,994	14,723	26,648	41,371
Belgaum	436,287	436,287	288,046 or 66	48,500	15,517	12,729	28,246
Dhárwár-Bijápur	263,558	263,558	164,888 or 63	.....	2,303	498	2,801
School Division	51,819	51,174	... ..	.....	.. ...	6,446	6,446
Total, Southern Circle ...	2,860,292	2,402,985	1,269,017 or 53	221,407	67,642	89,951	157,593
SIND CIRCLE.							
Sukkur	214,870	173,524	170,619 or 98·3	41,346	35	1,322	1,357
Shikárpur	106,736	14,600	14,194 or 97·21	92,136	406	.....	406
Lárkána	112,369	51,138	50,731 or 99·20	61,231	407	... ..	407
Hyderabad	155,435	26,079	25,433 or 97·52	129,356	646	.....	646
Karáchi	139,282	67,386	67,033 or 99 48	71,896	181	5	186
Total, Sind Circle ...	728,692	332,727	328,010 or 95·58	395,965	1,675	1,327	3,002

* Exclusive of protected forests in charge of the Forest Department.

FORM No. 60.—*Area closed and open to grazing during 1921-1922.*

Division.	Area in square miles.						Remarks.
	Closed to all animals.		Open to grazing.				
			Of all animals.		Of all animals except browsers (camels, sheep and goat, etc).		
	Whole year.	Part of year.	Whole year.	Part of year.	Whole year.	Part of year.	
1	2	3	4	5	6	7	8
NORTHERN CIRCLE.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	Sq. m.	
Panch Mahals	81	14	.....	.....	236	.....	
Surat	18	50	340	.....	352	.....	
North Thána	61	.....	149	.....	285	.....	
West do.	48	.....	89	.....	253	.....	
East do.	96	.....	142	.....	363	.....	
West Násik	54	8	100	.....	262	.....	
East do.	93	.....	215	.....	506	.....	
Ahmedabad	.....	.....	19	.....	.....	.....	
Total, Northern Circle	451	72	1,054	.....	2,257	.....	
CENTRAL CIRCLE.							
East Khándesh	228	58	36	.....	478	.....	
North do.	31	91	.....	.....	749	.....	
West do.	113	.....	231	.....	453	.....	
Poona	27	59	421	.....	487	.....	
Kolába	63	1	101	.....	358	.....	
Sátára	43	2	195	.....	471	.....	
Ahmednagar-Sholápur	.....	.....	695	.....	.....	.....	
Total, Central Circle	505	211	1,679	.....	2,996	.....	
SOUTHERN CIRCLE.							
Kánara, Northern	226	.....	.....	.....	109	.....	
Do. Eastern	269	.....	.....	.....	302	.....	
Do. Central	464	.....	.....	.....	350	.....	
Do. Southern	137	.....	.....	.....	588	.....	Most of this area is forest proper in Siddapur Range and Kans which are closed to grazing and also compartments of the Sopinhosalli High forests.
Do. Western	182	.....	.....	.....	671	.....	
Belgaum	97	.....	3	.....	*584	.....	
Dhárwár-Bijápur	38	6	182	.....	314	.....	
School Division	20	.....	.....	.....	61	.....	
Ratnágiri	.....	.....	19	.....	.....	.....	
Total, Southern Circle	1,433	6	204	.....	2,979	.....	
SIND CIRCLE.							
Sukkur	32	.....	47	.....	257	.....	
Shikárpur	17	.....	12	.....	138	.....	*45 miles of Gujnal and 146 of Gokak Range are also open to sheep and goats.
Lárkána	7	.....	18	.....	150	.....	
Hyderabad	4	.....	26	.....	213	.....	
Karachi	7	.....	85	.....	126	.....	
Total, Sind Circle	67	.....	188	.....	884	.....	
GRAND TOTAL, PRESIDENCY	2,456	289	3,125	.....	9,116	.....	

FORM No. 61.—*Return of Grazing in*

Division.	Grazing on Payment—Number of Animals.												
	At full rates.						At privileged rates.						
	Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other Animals.	Fees received.	Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other Animals.	Fees received.	
												Actual.	Value at full rates.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
NORTHERN CIRCLE.						Rs.						Rs.	Rs.
Reserved Forests.													
Panch Mahâls ...	1,461	2,510	...	...	...	2,716	319	967	...	...	...	174	802
Surat ...	...	...	...	...	...	.....	264	529	...	...	...	99	528
North Thâna ...	...	...	...	...	...	.....	39	695	...	...	...	140	483
West do. ...	146	750	...	...	...	651	713	3,959	...	...	...	1,616	3,366
East do. ...	128	4,462	...	...	...	2,949	1,296	18,388	60	...	...	4,398	18,176
West Násik ...	33	370	...	...	...	391	2,479	31,178	...	...	...	5,004	22,984
East do. ...	21	569	528	...	224	946	11,727	115,923	95,190	...	1,611	25,622	1,54,058
Total, Reserved Forest ...	1,789	8,661	528	...	224	7,653	16,837	171,639	95,250	...	1,611	37,053	2,00,397
Protected Forests.													
North Thâna ...	...	...	...	...	...	.....	...	...	...	...	...	.....	.....
West do. ...	...	...	...	...	...	.....	...	...	12	...	...	2	3
Total, Protected Forests ...	...	...	...	...	...	.....	...	...	12	...	...	2	3
Leased Forests.													
Surat ...	9	2,090	...	...	2	1,051	...	...	...	...	...	.....	.....
Total, Northern Circle ...	1,798	10,751	528	...	226	8,704	16,837	171,639	95,262	...	1,611	37,055	2,00,400
CENTRAL CIRCLE.													
Reserved Forests.													
East Khándesh ...	866	18,141	...	...	257	19,258	25,588	144,420	...	...	214	26,683	1,70,222
North do. ...	2,631	24,496	...	...	2,213	29,340	5,486	41,049	...	...	153	7,157	46,682
West do. ...	1,747	582	...	...	1,466	3,795	107,095	14,308	68,606	...	1,811	25,938	1,91,820
Poona ...	620	1,772	...	...	...	2,392	15,261	100,405	32,731	...	521	19,346	1,48,918
Kolába ...	...	15	...	...	...	15	6,299	70,524	13	...	...	10,399	76,636
Sátára ...	335	783	...	...	53	1,222	27,673	125,215	49,615	...	243	35,597	202,786
Total, Reserved Forest ...	6,193	45,789	...	...	3,989	56,022	187,396	495,721	150,965	...	2,982	125,120	8,37,064
Leased Forests.													
Sátára ...	...	...	...	...	...	.....	481	861	...	...	...	267	1,342
Total, Central Circle ...	6,193	45,789	...	...	3,989	56,022	187,777	496,582	150,965	...	2,982	125,387	8,38,406
N.B.—In Satara Division Rs. 102 for 51 cattle at double rate were recovered, hence there is difference of 51 between Amount and No. of cattle in columns 2 to 6 and 7.													
SOUTHERN CIRCLE.													
Reserved Forests.													
Kánara, Northern Division	...		...	...	...	.....	22,560		...	...	...	3,929	22,560
Do. Eastern do. ...	12		...	...	...	12	35,727		...	...	...	4,769	35,727
Do. Central do. ...	2		...	...	...	2	27,327		...	...	...	5,064	27,327
Do. Southern do. ..	...		...	...	...	.....	67,113		...	...	..	8,949	67,113
Do. Western do. ...	...		...	...	...	.....	27,932		...	...	...	4,176	27,932
Belgaum ...	...		...	...	...	.....	50,162		20,029	...	...	11,728	55,169
Dhárwár-Bijápur ...	715		233	...	...	843	111,644		62,455	...	128	21,025	1,21,503
School Division ...	127		...	...	...	127	5,116		...	...	...	899	5,116
Total, Southern Circle ...	856		233	...	...	984	347,581		82,484	...	128	60,539	3,62,447
SIND CIRCLE.													
Reserved Forests.													
Sukkur ...	2,761	2,863	12,343	55	71	5,530	...	...	...	...	...	.....	.....
Shikárpur ...	2,024	1,917	6,983	10	13	3,369	...	...	...	...	...	.....	.....
Lárkána ...	5,558	2,442	7,397	9	...	5,205	...	...	...	...	...	.....	.....
Hyderabad ...	3,644	3,513	5,288	118	107	5,530	...	...	...	...	...	.....	.....
Karáchi ...	3,716	2,198	2,478	703	290	5,083	...	...	...	...	...	.....	.....
Total, Sind Circle ...	17,103	12,933	34,489	895	481	24,717	...	...	...	...	...	.....	.....
GRAND TOTAL PRESIDENCY ...	95,243		35,250	895	4,696	90,427	1,220,416		328,711	...	4,721	222,981	14,01,253

Note.—The cattle shown in columns 21 and 22 under Reserved Forest in North and West grazed in Protected Forest also.

the State Forests during 1920-21.

Grazing Free—Number of Animals.													
By right under Settlement.						During pleasure of Government or otherwise than under Settlement.							
Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other Animals.	Value of Fees at full rates.	Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other Animals.	Value of Fees at full rates.	Total Value of Fees at full rates.	Grand Total of Value at full rates.
15	16	17	18	19	20	21	22	23	24	25	26	27	28
					Rs.						Rs.	Rs.	Rs.
...	...	...	...	...	.....	26,472	125,700	...	...	...	89,322	89,322	92,840
...	...	...	...	...	.....	...	...	...	...	...	... ..	.....	528
...	...	...	...	...	.....	6,398	47,696	...	...	...	37,808	37,808	38,291
...	...	...	...	...	.....	15,693	72,155	...	...	...	64,737	64,737	68,754
...	...	...	...	...	.....	13,003	55,524	...	...	...	50,956	50,956	72,081
7,369	18,357	...	...	...	25,726	...	...	...	...	...	.....	25,726	49,101
...	...	...	...	...	.....	...	...	...	...	...	.....	.....	1,55,004
7,369	18,357	...	...	...	25,726	61,566	301,075	...	...	...	2,42,823	2,68,549	4,76,599
...	...	...	...	...	.....	348	1,600	...	...	...	1,435	1,435	1,435
...	...	...	...	...	.....	2,396	8,226	...	...	2	10,011	10,011	10,014
...	...	...	...	...	.....	2,744	9,826	...	...	2	11,446	11,446	11,449
...	...	...	...	...	.....	1,719	25,551	4,217	...	71	31,558	31,558	32,609
7,369	18,357	...	...	...	25,726	66,029	336,452	4,217	..	73	2,85,827	3,11,553	5,20,657
...	...	...	...	...	.....	2,355	10,460	...	...	29	12,844	12,844	2,02,324
...	...	...	...	...	.....	14,971	9,096	...	...	1,573	25,640	25,640	1,01,662
...	...	...	...	...	.....	1,593	17,386	...	...	10	18,989	18,989	2,14,604
...	...	...	...	...	.....	...	...	...	...	...	.....	.....	1,51,310
...	...	...	...	...	.....	361	1,036	...	...	...	1,397	1,397	78,048
10	44	...	...	...	54	17	32	...	...	...	49	103	2,04,111
10	44	...	...	...	54	19,297	38,010	...	...	1,612	58,919	58,973	9,52,059
...	...	...	...	...	.....	...	...	...	...	...	.....	.....	1,342
10	44	...	...	...	54	19,297	38,010	...	...	1,612	58,919	58,973	9,53,401
...	...	...	...	...	.....		391	...	...	...	391	391	22,951
...	...	...	...	...	.....		900	...	...	...	900	900	36,639
...	...	...	...	...	.....		28,100	...	...	...	28,100	28,100	55,429
...	...	...	...	...	.....		.....	...	...	...	.....	.....	67,113
...	...	...	...	...	.....		18,652	...	...	...	18,652	18,652	46,584
...	...	...	...	...	.....		9,535	...	...	...	9,535	9,535	64,704
...	...	...	...	...	.....		20,500	...	...	...	20,500	20,500	1,42,846
..	...	...	...	...	.....		3,494	...	...	...	3,494	3,494	8,737
...	...	...	...	...	.....		81,572	...	...	...	81,572	81,572	4,45,003
553	1,762	...	...	6	945	339	2,019	...	...	205	1,413	2,358	7,888
239	981	...	...	5	297	196	1,799	...	...	760	524	821	4,190
648	1,688	...	...	...	1,119	214	116	...	91	614	631	1,750	69,55
3	129	...	...	...	51	54	1,273	12,896	228	921	3,498	3,539	9,069
158	95	...	...	...	117	472	1,122	4,840	102	1,737	1,023	1,140	6,223
1,661	4,655	...	...	11	2,529	1,275	6,329	17,736	421	4,237	7,079	9,608	34,325
9,040	23,056	...	...	11	28,309	548,964		21,953	421	5,922	4,33,397	4,61,705	19,53,386

FORM No. 62.—*Artificial Reproduction during the year 1921-1922.*

Division.	Kind of Plantation.	AREA IN ACRES.				EXPENDITURE DURING THE YEAR.		TOTAL EXPENDITURE FROM COMMENCEMENT.		Revenue during the year.	Total revenue from date of creation of plantation.	Remarks.
		On 1st April 1921.	Added during the year.	Excluded during the year.	Area on 31st March, 1922.	Creation.	Upkeep.	Creation.	Upkeep			
1	2	3	4	5	6	7	8	9	10	11	12	13
		Acres.	Acres.	Acres.	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
NORTHERN CIRCLE.												
North Thána ...	Regular ...	129	10	...	139	3,771	360	26,550	371	160	312	Retransferred to West Thana Division for management; out of this area 15s. 3g. which was notified as Reserved Forests in 1918-19, while the plantation was in charge of the North Thana Division, was included in the Reserved Forests of that Division.
West Thana ...	Do. ...	66	10	...	76	1,327	220	9,564	220	216	336	
	Total, Northern Circle	195	20	...	215	5,098	580	36,114	591	376	648	
CENTRAL CIRCLE.												
Kolába ..	Regular plantations...	114	1	6	109	129	420	3,454	4,452	3,004	8,283	
SOUTHERN CIRCLE.												
Kánara Central ..	Regular plantations...	*149	...	...	149	...	122	2,318	*13,917	237	4,907	
Do. Southern.	Do. ...	*585	...	...	585	1,957	...	*76,053	*1,030	6,481	38,487	
Do. Western...	Do. ...	*215	30	...	215	195	3,940	*22,376	*10,373	7,676	31,936	
Dhárwár-Bijápur	Do. ...	*10	...	...	10	...	.....	43	...	...	592	
	Total ...	959	30	...	989	2,155	4,062	1,00,790	25,320	14,394	75,922	
Kánara Eastern.	Taungya ...	200	3	...	203	4,014	837	12,584	2,488	...	1,089	
Do. Southern.	Do (Teak) ...	422	300	64	658	150	70	*315	*75	...	...	
Do. do.	Do.(Tali with sprinkling of Teak).	*100	64	...	164	...	45	*10	*114	...	...	*Corrected as per Divisional Forest officers' statements.
	Total ...	722	367	64	1,025	4,164	952	12,909	2,677	...	1,089	
Kánara Northern.	Other forms of artificial reproduction.	294	206	77	423	9,572	550	29,568	1,045	...	...	
Do. Central .	Do. ...	252	18	128	142	3,578	776	*7,999	1,218	..	...	
Do. Southern	Do. ...	432	290	...	722	1,042	1,296	*7,208	*3,570	401	401	
Do. Western.	Do. ...	*172	...	...	172	...	.....	*11,227	*3,147	3,796	3,796	
Belgaum ...	Do. ...	5	..	...	5	...	.....	...	59	...	...	
School Division.	Do. ...	791	...	...	791	...	.....	5,053	19	...	...	
	Total ...	1,946	514	205	2,255	14,192	2,622	61,055	9,058	4,197	4,197	
	Total, Southern Circle	3,627	911	269	4,269	20,511	7,636	1,74,754	37,055	18,591	81,208	
SIND CIRCLE.												
Sukkur ...	Regular plantations...	323	6	...	329	844	1,313	1,678	22,309	2,107	26,506	
Shikárpur ...	Do. ...	99	...	...	99	713	585	2,387	4,586	...	...	
Lárkána ...	Do. ...	17	...	...	17	...	73	54	2,732	...	...	
Hyderabad ...	Do. ...	8	...	...	8	...	...	325	893	...	...	
Karáchi ...	Do. ...	22	...	...	22	...	138	494	6,206	284	373	
	Total, Sind Circle ...	469	6	...	475	1,557	2,109	4,938	36,726	2,391	26,879	
GRAND TOTAL, PRESIDENCY.	Regular plantations...	1,737	57	6	1,788	8,939	7,171	1,45,296	67,089	20,165	1,11,732	
	Taungya ..	722	367	64	1,025	4,164	952	12,909	2,677	...	1,089	
	Other forms of artificial reproduction.	1,946	514	205	2,255	14,192	2,622	61,055	9,058	4,197	4,197	
	Total ...	4,405	938	275	5,068	27,295	10,745	2,19,260	78,824	24,362	1,17,018	

FORM No. 63.

FORM No. 63.—*Outturn (in thousands of cubic feet, solid) of Timber and Fuel during the*

Division.	Timber in the rough, Logs.					Timber in the rough, Poles.					Sawn or Square Timber.				
	Government.	Purchasers.	Free grantees.	Right and privilege holders.	Total.	Government.	Purchasers.	Free grantees.	Right and privilege holders.	Total.	Government.	Purchasers.	Free grantees.	Right and privilege holders.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
NORTHERN CIRCLE.															
Reserved Forest.															
Panch Mahála	12	18	...	...	30	...	127	...	...	127	...	...	...	...	...
Surat	...	12	...	...	12	...	81	3	...	84	...	...	...	..	...
North Thána	17	28	...	...	45	191	374	...	...	565	...	...	...	...	...
West Thána	...	42	...	...	42	76	192	...	...	268	...	9	...	...	9
East Thána	...	104	...	...	104	45	106	1	...	152	...	6	...	...	6
West Násik	8	24	...	...	32	24	31	1	...	56	...	...	...	...	...
East Násik	...	20	...	...	20	2	79	5	...	86	...	...	...	...	...
Total ...	37	248	...	...	285	338	990	10	...	1,338	...	15	...	...	15
Protected Forest.															
North Thána	...	14	...	...	14	...	121	...	...	121	...	...	...	...	...
West Thána	...	4	11	..	15	...	33	...	...	33	...	1	..	...	1
East Thána	...	25	...	...	25	...	13	...	...	13	...	...	...	...	...
West Násik	...	20	...	...	20	...	16	...	...	16	..	...	...	...	...
Total ...	...	63	11	...	74	...	183	...	...	183	...	1	...	...	1
Unclassed Forest (Malki).															
East Thána	...	1	...	...	1	...	8	...	...	8	...	36	...	...	36
West Násik	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Leased Forest.															
Surat	35	44	...	...	79	22	22	1	...	45	44	...		...	44
Total, Northern Circle ...	72	356	11	...	439	360	1,203	11	...	1,574	44	52		...	96

year 1921-1922, and Agency of Exploitation.

Miscellaneous.					Total Timber.					Fuel.					Total Outturn.
Government.	Purchasers.	Free grantees.	Right and privilege holders.	Total.	Government.	Purchasers.	Free grantees.	Right and privilege holders.	Total.	Government.	Purchasers.	Free grantees.	Right and privilege holders.	Total.	Total Outturn.
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
...	...	...	...	...	12	145	...	...	157	...	694	...	1,467	2,161	2,318
...	...	...	...	...	...	93	3	...	96	...	225	...	20	245	341
...	...	...	...	...	208	402	...	...	610	437	1,104	...	1,100	2,641	3,251
...	...	...	...	...	76	243	...	...	319	231	1,088	..	911	2,230	2,549
...	...	...	...	...	45	216	1	...	262	177	1,054	...	1,074	2,305	2,567
...	7	...	...	7	32	62	1	...	95	1	120	...	700	821	916
...	...	...	...	...	2	99	5	...	106	...	222	...	...	222	328
...	7	...	...	7	375	1,260	10	...	1,645	846	4,507	...	5,272	10,625	12,270
...	...	...	...	...	...	135	...	...	135	...	115	...	500	615	750
...	...	...	...	...	...	38	11	...	49	...	37	..	109	146	195
...	1	...	...	1	...	39	...	...	39	...	61	...	...	61	100
...	2	...	...	2	...	38	..	...	38	...	...	...	...	...	38
...	3	...	...	3	...	250	11	...	261	...	213	...	609	822	1,083
...	...	...	...	...	...	45	...	...	45	...	17	...	...	17	62
Sandalwood—Kds. lbs. 1 15	...	...	...	Sandalwood—Kds. lbs. 1 15	...	...	...	...	Sandalwood—Kds. lbs. 1 15	...	...	...	...	...	Sandalwood—Kds. lbs. 1 15
...	...	...	...	...	101	66	1	...	168	5	12	..	287	304	472
Sandalwood—Kds. lbs. 1 15	10	...	...	10	476	1,621	22	...	2,119	851	4,749	...	6,168	11,768	13,887
				Sandalwood—Kds. lbs. 1 15	Sandalwood—Kds. lbs. 1 15				Sandalwood—Kds. lbs. 1 15						Sandalwood—Kds. lbs. 1 15

FORM No. 63.—*Outturn (in thousands of cubic feet, solid) of Timber and*

Division.	Timber in the rough, Logs.					Timber in the rough, Poles.					Sawn or Square Timber.				
	Government.	Purchasers.	Free grantees.	Right and privilege holders.	Total.	Government.	Purchasers.	Free grantees.	Right and privilege holders.	Total.	Government.	Purchasers.	Free grantees.	Right and privilege holders.	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	C. ft.	C. ft.	C. ft.	C.ft.	C. ft.	C. ft.	C. ft.	C.ft.	C.ft.	C. ft.	C. ft.	C. ft.	C.ft.	C.ft.	C. ft.
CENTRAL CIRCLE.															
Reserved Forest.															
East Khándesh	...	...	...	...	...	6	85	2	...	93	...	...	...	...	...
North Khándesh	...	13	...	...	13	4	93	2	...	104	...	...	...	...	...
West Khándesh	...	14	...	...	14	...	203	9	...	212	...	...	...	...	...
Poona	...	21	...	...	21	4	98	...	...	102	...	15	...	...	15
Kolába	...	26	...	...	26	...	189	9	...	198	...	...	...	...	...
Sátára	...	2	...	...	2	...	24	2	...	26	...	1	...	...	...
Total ...	...	76	...	...	76	14	697	24	...	735	...	16	...	...	16
Protected Forests.															
Kolaba	...	...	...	...	...	...	...	6	...	6	...	...	...	...	...
Total, Central Circle ...	...	76		...	76	14	697	30	...	741	...	16	...	...	16

Fuel during the year 1921-1922, and Agency of Exploitation—continued.

Miscellaneous.					Total, Timber.					Fuel.					Total Outturn.
Government.	Purchasers.	Free grantees.	Right and privilege holders.	Total.	Government.	Purchasers.	Free grantees.	Right and privilege holders.	Total.	Government.	Purchasers.	Free grantees.	Right and privilege holders.	Total.	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
... ..	...	...	...	.....	6	85	2	...	93	8	327	2	6	343	436
.. ...	...	...	...	.....	4	111	2	...	117	1	277	...	8	286	403
.....	...	...	...	... ..	...	217	9	...	226	...	977	...	72	1,049	1,275
..... Sandalwood— Kds. mds. lbs. 0 10 0	..	...	...	..... Sandalwood— Kds. mds. lbs. 0 10 0	4	134	...	...	138 Sandalwood— Kds. mds. lbs. 0 10 0	175	406	1	...	582	720 Sandalwood— Kds. mds. lbs. 0 10 0
.....	...	...	...	.....	...	215	9	...	224	45	1,011	...	430	1,486	1,710
... .. Sandalwood— Kds. mds. lbs. 3 13 7	2	...	...	2 Sandalwood— Kds. mds. lbs. 3 13 7	...	29	2	...	31	288	37	...	...	320	351 Sandalwood— Kds. mds. lbs. 3 13 7
... . Sandalwood— Kds. mds. lbs. 4 3 7	2	...	...	2 Sandalwood— Kds. mds. lbs. 4 3 7	14	791	24	...	829 Sandalwood— Kds. mds. lbs. 4 3 7	512	3,035	3	516	4,066	4,895 Sandalwood— Kds. mds. lbs. 4 3 7
.. ...	...	...	...	.....	...	...	6	...	6	...	...	...	...	...	6
..... Sandalwood— Kds. mds. lbs. 4 3 7	2	...	...	2 Sandalwood— Kds. mds. lbs. 4 3 7	14 Sandalwood— Kds. mds. lbs. 4 3 7	791	30	...	835 Sandalwood— Kds. mds. lbs. 4 3 7	512	3,035	3	516	4,066	4,901 Sandalwood— Kds. mds. lbs. 4 3 7

FORM No. 63.—*Outturn (in thousands of cubic feet, solid) of Timber and Fuel*

Division.	Timber in the rough, Logs.					Timber in the rough, Poles.				
	Government.	Purchasers.	Free grantees.	Right and privilege holders.	Total.	Government.	Purchasers.	Free grantees	Right and privilege holders.	Total.
1	2	3	4	5	6	7	8	9	10	11
SOUTHERN CIRCLE.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
Kánara, Northern	279	259	1	...	539	97	79	...	...	176
Kánara, Eastern	268	51	3	...	322	56	101	1	..	158
Kánara, Central	123	102	7	...	232	2	...	...	...	2
Kánara, Southern	83	40	1	...	124	2	20	1	...	23
Kánara, Western	32	73	11	...	116	...	...	...	...	...
Belgaum	39	24	...	...	63	9	44	5	...	58
Dharwár-Bijápur	..	....	...	...	...	...	17	...	...	17
School Division ...	3	...	...	...	3	1	4	...	...	5
Total, Southern Circle ...	827	549	23	...	1,399	167	265	7	...	439

Sawn or Square Timber.					Miscellaneous.		
Government.	Purchasers.	Free grantees.	Right and privilege holders.	Total.	Government.	Purchasers.	Free grantees
12	13	14	15	16	17	18	19
C. ft.	C. ft.	C.ft.	C.ft.	C. ft.	C. ft.	C. ft.	
193	...	...	...	193	.....	.....	.....
54	...	...	...	54	..... Sandalwood— Kds. mds. lbs. 36 9 26	.....	.....
5	...	...	...	5	..... Sandalwood— Kds. mds. lbs. 17 12 15 and rejected 1,081 c. ft. and 3 cart-loads.	.....	.....
12	...	...	...	12	..... Sandalwood— Kds. mds. lbs. 3 17 16	.....	.....
25	...	...	...	25	.....	4	.....
...	...	...	...	...	..... Sandalwoo — Kds. mds. lbs. 29 11 27	.....	.....
...	39	...	...	39	..... Sandalwood— Kds. mds. lbs. 78 16 6 and rejected. 11 2 13 trees 148 and cart-loads 10.	.....	.....
10	62	..	...	72	..... Sandalwood— Kds. mds. lbs. 20 3 0 and rejected 38 cart-loads and 478 pieces.	.....	.....
299	101	...	...	400	..... Sandalwood— Kds. mds. lbs. 186 11 6 and rejected 11 2 13 1,081 c. ft. 51 cart-loads 148 trees and 478 pieces.	4	.....

Miscellaneous—*continued.*		Total Timber.		
Right and privilege holders.	Total.	Government.	Purchasers.	Free grantees.
20	21	22	23	24
	C. ft.	C. ft.	C. ft.	C. ft.
.....	.....	569	338	1
.....	..... Sandalwood— Kds. mds. lbs. 36 9 26	378 Sandalwood— Kds. mds. lbs. 36 9 26	152	4
...	..... Sandalwood— Kds. mds. lbs. 7 12 15 and rejected 1,081 c. ft. and 3 cart-loads.	130 Sandalwood— Kds. mds. lbs. 17 12 15 and rejected 1,081 c. ft. and 3 cart-loads.	102	7
.....	..... Sandalwood— Kds. mds. lbs. 3 17 16	97 Sandalwood— Kds. mds. lbs. 3 17 16	60	2
... ..	4	57	77	11
.....	..... Sandalwood— Kds. mds. lbs. 29 11 27	48 Sandalwood— Kds. mds. lbs. 29 11 27	68	5
.....	..... Sandalwood— Kds. mds. lbs. 78 16 6 and rejected 11 2 13 trees 148 and cart-loads 10.	..... Sandalwood— Kds. mds. lbs. 78 16 6 and rejected 11 2 13 trees 148 and cart-loads 10.	56	.....
.....	..... Sandalwood— Kds. mds. lbs. 20 3 0 and rejected 38 cart-loads and 478 pieces.	14 Sandalwood— Kds. mds. lbs. 20 3 0 and rejected 38 carts-loads and 478 pieces.	66	.....
300	304 Sandalwood— Kds. mds lbs. 186 11 6 and rejected 11 2 13 1,081 c. ft. 51 cart-loads 148 trees and 478 pieces.	1,293 Sandalwood— Kds. mds. lbs. 186 11 6 and rejected 11 2 13 1,081 c. ft. 51 cart-loads 148 trees and 478 pieces.	919	30

during the year 1921-1922 and Agency of Exploitation—continued.

Total Timber—*continued.*		Fuel.					
Right and privilege holders.	Total.	Government.	Purchasers.	Free grantees.	Right and privilege holders.	Total.	Total Outturn.
25	26	27	28	29	30	31	32
	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
... ...	908	24	206	...	...	230	1,138
... ...	531 Sandalwood— Kds. mds. lbs. 36 9 26	4	153	27	...	184	718 Sandalwood— Kds. mds. lbs. 36 9 26
... ...	239 Sandalwood— Kds. mds. lbs. 17 12 15 and rejected 1,081 c. ft. and 3 cart-loads.	46	930	5	...	981	1,220 Sandalwood— Kds. mds. lbs. 17 12 15 and rejected 1,081 c. ft. and 3 cart-loads.
... ...	159 Sandalwood— Kds. mds. lbs. 3 17 16	210	485	1	...	696	855 Sandalwood— Kds. mds. lbs. 3 17 16
... ...	145	913	1,230	2	...	2,145	2,290
... ...	121 Sandalwood— Kds mds. lbs. 29 11 27	2,758	1,149	1	...	3,908	4,029 Sandalwood— Kds. mds. lbs. 29 11 27
... ...	56 Sandalwood— Kds. mds. lbs. 78 16 6 and rejected 11 2 13 trees 148 cart-loads 10.	3	379	14	...	396	452 Sandalwood— Kds. mds. lbs. 78 16 6 and rejected 11 2 13 trees 148 and cart-loads 10.
... ...	80 Sandalwood— Kds. mds. lbs. 20 3 0 and rejected 38 cart-loads and 478 pieces.	17	120	...	...	137	217 Sandalwood— Kds. mds. lbs. 20 3 0 and rejected 38 cart-loads and 478 pieces.
300	2,542 Sandalwood— Kds. mds. lbs. 186 11 6 and rejected. 11 2 13 1,081 c. ft, 51 cart-loads 148 trees and 478 pieces.	3,975	4,652	50	3,042	11,719	14,261 Sandalwood— Kds. mds. lbs. 186 11 6 and rejected 11 2 13 1,081 c. ft. 51 cart-loads 148 trees and 478 pieces.

FORM No. 63.—*Outturn (in thousands of cubic feet, solid) of Timber and Fuel*

Division.	Timber in the rough, Logs.					Timber in the rough, Poles.				
	Government.	Purchasers.	Free grantees.	Right and privilege holders.	Total.	Government.	Purchasers.	Free grantees.	Right and privilege holders.	Total.
1	2	3	4	5	6	7	8	9	10	11
	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
SIND CIRCLE										
Sukkur	4	12	...	...	16	...	12	1	...	13
Shikárpur	...	...	...	...	...	2	...	...	...	2
Lárkána	1	5	...	...	6	...	18	3	...	21
Hyderabad	6	19	...	...	25	...	...	...	...	...
Karáchi	...	3	1	...	4	...	9	...	...	9
Total, Sind Circle ...	11	39	1	...	51	2	39	4	...	45
GRAND TOTAL, PRESIDENCY ...	910	1,020	35	...	1,965	543	2,204	52	...	2,799

Sawn or Square Timber.					Miscellaneous.		
Government.	Purchasers.	Free grantees.	Right and privilege holders.	Total.	Government.	Purchasers.	Free grantees.
12	13	14	15	16	17	18	19
C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
...	...	...	...	...	.....	.....	.....
...	...	...	...	...	2	18	1
...	...	...	...	...	.....	.....	.....
...	...	...	...	...	.....	.....	.....
...	...	...	...	...	.....	.....	.....
...	...	...	...	...	2	18	1
343	169	...	...	512	2 Sandalwood— Kds. mds. lbs. 191 15 0 rejected. 11 2 13 1,081 c. ft. 51 cart-loads. 148 trees and 478 pieces.	34	1

Miscellaneous—*continued.*		Total Timber.		
Right and privilege holders.	Total.	Government.	Purchasers.	Free grantees.
20	21	22	23	24
C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
.....	.....	4	24	1
.....	21	4	18	1
.....	.....	1	23	3
.....	.....	6	19	.....
.....	.....	.....	12	1
.....	21	15	96	6
300	337 Kds. mds. lbs. 191 15 0 rejected. 11 2 13 1,081 c. ft. 51 cart-loads 148 trees and 478 pieces.	1,798 Kds. mds. lbs. 191 15 0 rejected 11 2 13 51 cart-loads 148 trees and 478 pieces.	3,427	88

during the year 1921-1922 and Agency of Exploitation—concluded.

Total Timber—*continued.*		Fuel.					
Right and privilege holders.	Total.	Government.	Purchaser.	Free grantees.	Right and privilege holders.	Total.	Total Outturn.
25	26	27	28	29	30	31	32
C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
... ..	29	389	4,493	8	85	4,975	5,004
... ..	23	51	2,370	5	...	2,426	2,449
.....	27	31	1,595	...	...	1,626	1,653
.....	25	966	6,170	...	1	7,137	7,162
.....	13	1,965	3,511	...	...	5,476	5,489
....	117	3,402	18,139	13	86	21,640	21,757
300	5,613 Sandalwood— Kds. mds. lbs. 191 15 0 rejected 11 2 13 1,081 c. ft. 51 cart-loads 148 trees and 478 pieces.	8,740	30,575	66	9,812	49,193	54,806 Sandalwood— Kds. mds. lbs. 191 15 0 rejected 11 2 13 1,081 c. ft. 51 cart loads. 148 trees and 478 pieces.

FORM No. 64.—*Outturn of Minor Forest Produce during the year 1921-1922.*

Description of Produce.	PRODUCE REMOVED OR UTILIZED.									
	By Government Agency.		By Purchasers.		By Free-grantees.		By Right and privilege holders.		Total.	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
1	2	3	4	5	6	7	8	9	10	11
NORTHERN CIRCLE.		Rs.		Rs.		Rs.		Rs.		Rs.
Reserved Forests.										
Apta Tembhurni leaves ...	.....	...	...	12,549	...	...	...	1,625	.....	14,174
Bámboos ...	.....	...	4,181,765	29,775	...	216	710,600	3,886	4,892,365	33,877
Chilhari bark ...	.....	...	...	468	...	...	...	167	.....	635
Gum ...	... ..	...	...	162	...	...	...	...	.....	162
Rosha grass ...	.....	...	...	2,448	...	...	...	...	.....	2,448
Grass and grazing ...	.....	...	...	90,314	...	...	...	2,69,000	.....	3,59,314
Hirda ...	... ..	...	...	2,138	...	...	...	85	.....	2,223
Karvi ...	.....	...	...	513	...	...	...	518	.....	1,031
Manure ...	.....	...	...	55	...	...	...	...	.....	55
Royalty on Manganese ore ...	... ..	...	...	2,463	...	...	...	...	.....	2,463
Mhowra seed and flowers ..	.....	...	...	2,955	...	...	...	185	.....	3,140
Palm leaves ...	.....	...	...	1,021	...	...	...	155	.....	1,176
Stones ...	.....	...	...	2,154	...	1,500	...	...	.....	3,654
Tarwad bark and seed ...	... ..	...	...	776	...	...	...	...	.....	776
Thorns ...	.....	...	...	433	...	13	...	...	.....	446
Miscellaneous ...	... ..	...	...	1,430	...	...	...	10,000	.....	11,430
Total ...	.....	...	...	1,49,654	...	1,729	...	2,85,621	.....	4,37,004
Protected Forests.										
Grazing ...	.....	...	...	.....	...	...	...	11,000	.....	11,000
Miscellaneous ...	.....	...	...	56	...	...	...	1,970	... ..	2,026
Total ...	.....	...	...	56	...	...	...	12,970	.....	13,026
Leased Forests.										
Apta Tembhurri leaves ...	.....	...	...	284	...	...	...	...	.....	284
Bamboos ...	1,600	308	744,600	18,615	2,950	73	...	7,000	7,49,150	25,996
Grass and grazing ...	.....	144	...	1,051	...	...	...	32,000	.....	33,195
Mhowra seed and flowers ...	.....	11	...	25	...	...	...	...	.....	36
Miscellaneous ...	.....	...	...	1,945	...	...	..	14,000	.....	15,945
Total ...	.....	463	...	21,920	...	73	...	53,000	.....	75,456
Total, Northern Circle ...	.....	463	...	1,71,630	...	1,802	...	3,51,591	.....	5,25,486
CENTRAL CIRCLE.										
Reserved Forests.										
Hirda and Shikekái ...	.....	1,106	...	7,766	...	...	...	...	.....	8,872
Mhowra seed ...	.....	9,794	...	.....	...	...	...	...	.....	9,794
Rosha grass ...	.....	...	...	5,789	...	...	...	...	.....	5,789
Leaves, pods, bark, etc. ...	.....	...	...	11,638	...	...	...	...	.....	11,638
Fruits ...	.....	...	...	3,699	...	...	...	...	.....	3,699
Earth, stone, murum, sand and chunkhadi, etc.	.....	...	...	4,342	...	235	...	369	.....	4,946
Grass and grazing ...	.....	...	...	2,99,102	...	...	...	10,883	.....	3,09,985
Bamboos ...	.....	...	...	9,338	...	536	...	15	.....	9,889
Tarwad ...	.....	...	...	60	...	...	...	...	.....	60
Aloe ...	.....	...	...	1,201	...	...	...	...	.....	1,201
Lac ...	.....	...	...	855	...	...	...	...	.....	855
Miscellaneous ...	.....	89	...	1,261	...	23	...	4,040	.....	5,413
Total ...	.....	10,989	...	3,45,051	...	794	...	15,307	.....	3,72,141
Leased Forests.										
Grass and Grazing ...	.....	...	...	508	...	...	...	...	.....	508
Total, Central Circle ...	.....	10,989	...	3,45,559	...	794	...	15,307	.....	3,72,649

FORM No. 64.—*Outturn of Minor Forest Produce during the year 1921-1922*—concluded.

Description of Produce.	Produce removed or utilized.									
	By Government Agency.		By Purchasers.		By Free-grantees.		By Right and privilege holders.		Total.	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
1	2	3	4	5	6	7	8	9	10	11
SOUTHERN CIRCLE.		Rs.		Rs.		Rs.		Rs.		Rs.
Reserved Forests.										
Bamboos ...	8,500	326	2,055,771	54,903	48,353	607	3,000,000	15,000	2,112,624	70,836
Shave farm ...	...	...	.....	101	...	...	...	...	.....	101
Grass and grazing ...	...	13,260	.....	63,624	...	14,658	...	3,00,387	.....	3,91,929
Harda, Shigekái, Honey, Wax, Cinnamon, Ramphal, etc., farm.	...	...	.....	22,432	...	...	...	...	.....	22,432
Prickly pear rafters, pegs and stakes for fence.	...	...	.....	101	...	2	...	...	.....	103
Thorns ...	...	...	.....	267	...	...	...	...	.....	267
Ulpi sticks ...	...	...	.....	8	...	...	...	...	.....	8
Kajra seed ...	...	...	.....	22	...	...	...	...	.....	22
Hulgal seed ...	...	...	.....	968	...	...	...	...	.....	968
Fruit farm (Honne, Tamarind, Mango, etc.).	...	...	.....	55	...	...	...	...	.....	55
Cocoanuts ...	...	...	.....	28	...	...	...	...	.....	28
Baini trees ...	...	...	.....	66	...	...	...	...	.....	66
Tali trees and leaves ...	...	...	.....	2,792	...	187	...	...	.....	2,979
Tapping fees on toddy trees.	...	...	.....	381	...	...	...	...	.....	381
Tumri leaves ...	...	...	.....	2,682	...	...	...	...	.....	2,682
Shindoli leaves ...	...	...	.....	15	...	...	...	...	.....	15
Green "Soppu" (leaves) ...	...	...	.....	24	...	...	...	...	.....	24
Shigi bark ...	...	...	.....	25	...	...	...	...	.....	25
Tarwad bark ...	...	...	.....	5,000	...	...	...	...	.....	5,000
Cane ...	...	...	.....	978	...	80	...	...	.....	1,058
Karvi ...	...	...	.....	82	...	3	...	...	.....	85
Creepers ...	...	...	.....	12	...	...	...	...	.....	12
Broom grass and madigrass...	...	...	.....	428	...	...	...	...	.....	428
Tarwatgi seed farm ...	...	...	.....	2	...	...	...	...	.....	2
Ragi ...	...	2,200*	.....	.....	...	...	...	...	.....	2,360
Paddy ...	...	500†	.....	.....	...	...	...	...	.....	500
Gum farm ...	...	...	.....	900	...	...	...	...	.....	900
Bábul pod farm ...	...	...	.....	700	...	...	...	...	.....	700
Bandurbi ...	...	...	.....	608	...	...	...	...	.....	608
Fees on stone quarries ...	...	...	.....	4,319	...	...	...	...	.....	4,319
Stones ...	...	...	.....	1,120	...	70	...	...	.....	1,190
Metal, murram, earth and sand.	...	...	.....	63	...	439	...	...	.....	502
Lime stones ...	...	...	.....	32	...	...	...	...	.....	32
Dagadful farm ...	...	...	.....	25	...	...	...	...	.....	25
Horns and skin ...	...	...	.....	22	...	...	...	...	.....	22
Soap nuts farm ...	...	...	.....	25	...	...	...	...	.....	25
								1,80,000‡		1,80,000‡
Total, Southern Circle ...	...	16,386	.....	1,62,813	...	16,046	...	4,95,387	.....	6,90,632
	Mds.									
SIND CIRCLE.										
Reserved Forests.										
Vegetables, fruit and flowers.	...	43	.....	857	...	...	...	...	.....	900
Seed ...	8	21	387	1,449	...	...	...	...	.....	1,470
Sar and Kanh grass ...	...	...	.....	3,393	...	...	...	...	.....	3,393
Babul and Kandi pods ...	...	...	.....	37,514	...	...	...	...	.....	37,514
Lac ...	118	1,880	.....	11,204	...	...	...	...	.....	13,084
Brushwood ...	...	...	.....	279	...	...	...	...	.....	279
Kamo Creeper ...	...	...	.....	40	...	...	...	...	.....	40
Grazing ...	...	...	.....	24,717	...	7,079	...	2,529	.....	34,325
Total, Sind Circle	...	1,944	...	79,453	...	7,079	...	2,529	.....	91,005
GRAND TOTAL, PRESIDENCY...	...	29,782	.....	7,59,455	...	25,721	...	8,64,814	.....	16,79,772

* Rs. 2,300 credited to V c.
† Rs. 500 credited to II e.
‡ Value of Minor Produce of all kinds except Bamboos and grass and Grazing removed by Right and Privilege holders.

FORM No. 65.—*Account of Timber and other Produce cut or collected by Government Agency and brought to Depôts, sold locally, or otherwise disposed of during the year 1921-1922.*

Name of Division or Range.	Balance at commencement of the year in Forests and Sale Depôts.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in Forests and Sale Depôts.
1	2	3	4	5	6
NORTHERN CIRCLE.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
Timber.					
Panch Mahals—					
Teak	5,577	12,078	17,655	17,000	655
Injaili	...	...	...	...	...
Total ...	5,577	12,078	17,655	17,000	655
Surat—					
Teak	33,261	92,196	125,457	61,288	64,169
Blackwood	638	577	1,215	652	563
Injaili	18,808	8,452	27,260	18,323	8,937
Total ...	52,707	101,225	153,932	80,263	73,699
North Thana—					
Teak	56,736	89,209	145,945	91,607	54,338
Injaili	18,912	118,937	137,849	65,399	72,450
Total ...	75,648	208,146	283,794	157,006	126,788
West Thana—					
Teak	7,677	46,191	53,868	33,709	20,159
Injaili	3,814	29,561	33,375	28,562	4,813
Total ...	11,491	75,752	87,243	62,271	24,972
East Thana—					
Teak	7,140	14,672	21,812	18,536	3,276
Injaili	155	30,044	30,199	30,199	...
Total ...	7,295	44,716	52,011	48,735	3,276
West Nasik—					
Teak	9,353	31,619	40,972	15,871	25,101
Injaili	...	...	...	...	
Total ...	9,353	31,619	40,972	15,871	25,101
East Nasik—					
Teak	...	1,933	1,933	1,933	...
Injaili	...	574	574	574	...
Total ...	...	2,507	2,507	2,507	...
Total Timber—					
Teak	119,744	287,898	407,642	239,944	167,698
Blackwood	638	577	1,215	652	563
Injaili	41,689	187,568	229,257	143,057	86,200
Total, ...	162,071	476,043	638,114	383,653	254,461
Fuel—					
Panch Mahals	...	80	80	80	...
Surat	...	5,000	5,000	5,000	...
North Thána	133,575	437,389	570,964	332,475	238,489
West Thána	32,950	230,500	263,450	198,719	64,731
East Thána	33,744	177,271	211,015	209,352	1,663
West Násik	270	680	950	50	...
East Násik	...	...	...	...	...
Total, ...	200,539	850,920	10,51,459	746,576	304,883
Total, Timber and Fuel ..	362,610	1,326,963	16,89,573	11,30,229	559,344
Bamboos (Value.)					
Surat	...	308	308	308	...
Sandalwood (Value).					
West Nasik	...	100	100	...	100
Minor Forest Produce.					
Panch Mahals—	M. s.		M. s.	M. s.	
Tarwad Seed	33 25	...	33 25	33 25	...
	Rs. 166		Rs. 166	Rs. 166	...
Surat—	M. s.				
Mhowra Flowers	3,348 13	...	...	...	...
	Rs. 6,278	Rs. 11	6,289	6,289	...
	Lbs. 12,793				...
Mhowra Seed	Rs. 378	...	378	378	...
Grass	...	144	144	144	...
East Násik—	Bags.		Bags.	Bags.	
Anjan Pods	25	...	25	25	...
	Rs. 19		Rs. 19	Rs. 19	...
Total ...	6,841	155	6,996	6,996	...
	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
Total, Northern Circle ...	362,610	1,326,963	1,689,573	1,130,229	559,344
	+ Rs. 6,841	+ Rs. 563	+ Rs. 7,404	+ Rs. 7,304	+ Rs. 100

Name of Division or Range.	Balance at commencement of the year in Forests and Sale Depôts.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in Forests and Sale Depôts.
1	2	3	4	5	6
CENTRAL CIRCLE.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
Timber (Cubic feet).					
East Khándesh	3,043	5,748	8,791	5,436	3,355
North Khándesh	.....	4,428	4,428	2,121	2,307
West Khándesh	966	50	1,016	78	938
Poona	213	3,674	3,887	3,887	...
Kolaba	358	125	483	246	237
Sátára	550	3	553	553	...
Total ...	5,130	14,028	19,158	12,321	6,837
Fuel (cubic feet)					
East Khándesh	16,300	7,550	23,850	17,220	6,630
North Khándesh	.....	1,440	1,440	...	1,440
Poona	13,796	175,021	188,817	188,808	9
Kolaba	13,890	45,134	59,024	30,227	28,797
Sátara	346,400	282,905	629,305	251,357	377,948
Total ...	390,386	512,050	902,436	487,612	414,824
Mhowra (weight).	Lbs.	Lbs.	Lbs.	Lbs.	Lbs.
West Khándesh	.....	90,447	90,447	90,447	...
North Khándesh	.....	28,597	28,597	28,597	...
Total ...	.....	119,044	119,044	119,044	...
Sandalwood (Value).	Rs.	Rs.	Rs.	Rs.	Rs.
Poona	.....	81	81	81	...
Sátara	500	1,177	1,677	1,677	...
Total	500	1,258	1,758	1,753	...
Minor Forest Produce (Value).					
Poona	.....	1,106	1,106	1,106	...
Sátara	.....	89	89	89	...
Total	.....	1,195	1,195	1,195	...
Total, Central Circle	C. ft. 395,516	C. ft. 526,078	C ft. 921,594	C. ft. 490,933	C. ft. 421,661
	Lbs.	Lbs. 119,044	Lbs. 119,041	Lbs. 119,044	Lbs. ...
	Rs. 500	Rs. 2,453	Rs. 2,953	Rs. 2,953	Rs. ...
SOUTHERN CIRCLE.					
Timber.					
Kánara, Northern Division—					
Teak	493,640	383,090	876,730	271,521	605,209
Blackwood	41,384	7,331	48,715	15,834	32,881
Junglewood	336,700	178,497	515,197	258,877	256,320
Total ...	871,724	568,918	1440,642	546,232	894,410
Kánara, Eastern Division—					
Teak	218,214	306,452	5,24,666	252,787	171,879
Blackwood	2,932	3,249	6,181	4,562	1,619
Junglewood	48,103	68,501	116,604	56,151	60,453
Total ...	269,249	378,202	647,451	413,500	233,951
Kánara, Central Division—					
Teak	1,336	6,787	8,123	6,599	1,524
Blackwood	633	3,523	4,156	3,010	1,146
Junglewood	67,276	119,844	187,120	113,967	73,153
Total ...	69,245	130,154	199,399	123,576	75,823
Kánara, Southern Division—					
Teak	28,136	49,661	77,797	27,112	50,685
Blackwood	204	979	1,183	663	520
Junglewood	54,794	46,584	101,378	36,165	65,213
Total ...	83,134	97,224	180,358	63,940	116,418
Kánara, Western Division—					
Teak	25,970	7,441	33,411	27,524	5,887
Blackwood	599	761	1,360	1,360	...
Junglewood	30,215	48,751	78,966	77,943	1,023
Total ...	56,784	56,953	113,737	106,827	6,910

FORM No. 65.—*Account of Timber and other Produce cut or collected by Government Agency and brought to Depôts, sold locally, or otherwise disposed of during the year 1921-22*—concluded.

Name of Division or Range.	Balance at commencement of the year in Forests and Sale Depôts.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in Forests and Sale Depôts.
1	2	3	4	5	6
SOUTHERN CIRCLE —*concluded.*	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
Belgaum Division—					
Teak	8,414	28,334	36,748	29,902	6,846
Blackwood	25	1,802	1,827	872	955
Junglewood	4,597	17,543	22,140	19,978	2,162
Total ...	13,036	47,679	60,715	50,752	9,963
Dhárwár—Bijápur Division—					
Teak	...	...	...	...	...
Blackwood	...	...	...	...	...
Junglewood	319	98	417	355	62
Total ...	319	98	417	355	62
School Division—					
Teak	17,447	4,934	22,381	16,341	6,040
Blackwood	3,280	1,415	4,704	3,686	1,018
Junglewood	13,740	7,676	21,416	18,779	2,637
Total ...	34,476	14,025	48,501	38,806	9,695
Total, Timber—					
Teak	793,157	786,699	1,579,856	731,786	848,070
Blackwood	49,066	19,060	68,126	29,987	38,139
Junglewood	555,744	487,494	1,043,238	582,215	461,023
Total ...	1,397,967	1,293,253	2,691,220	1,343,988	1,347,232
Fuel.					
Kánara, Northern Division ...	298,401	24,415	322,816	36,925	285,891
Kánara, Eastern Division ...	...	3,525	3,525	3,525	...
Kánara, Central do. ...	537	45,567	46,104	44,279	1,825
Kánara, Southern do. ...	166,917	209,820	376,737	182,041	194,696
Kánara, Western do. ...	157,020	912,790	1,069,810	928,863	140,947
Belgaum do. ...	1,037,432	2,757,556	3,794,988	3,513,502	281,486
Dhárwár-Bijápur do. ...	41	3,494	3,535	3,530	5
School do. ...	114,667	17,165	131,832	123,667	8,165
Total ...	1,775,015	3,974,332	5,749,347	4,836,332	913,015
	Rs.	Rs.	Rs.	Rs.	Rs.
Bamboos (Value).					
Kánara, Northern Division ...	...	4	4	4	...
Kánara, Eastern do. ...	...	318	318	318	...
Dharwar-Bijapur do. ...	...	4	4	4	...
Total ...	...	326	326	326	...
Sandalwood (Value).					
Kánara Northern Division ...	...	...	...	...	...
Kánara, Eastern do. ...	...	14,945	14,945	1,568	13,377
Kánara, Central do. ...	...	6,240	6,240	108	6,132
Kánara, Southern do. ...	...	1,505	1,505	82	1,423
Kánara Western do. ...	...	...	...	...	...
Belgaum do. ..	20	25,692	25,712	13,712	12,000
Dhárwár-Bijápur do. ...	...	30,040	30,040	101	29,939
School do. .	...	2,241	2,241	2,241	...
Total ...	20	80,663	80,683	17,812	62,871
Minor Forest Produce (Value)					
Kánara, Northern Division ...	365	38	403	38	365
Kánara, Eastern do. ...	...	...	...	...	...
Kánara Central do. ...	...	...	...	...	...
Kánara Southern do. ...	...	...	...	...	...
Kánara, Western do. ...	...	...	...	...	...
Belgaum do. ..	...	*13,222	13,222	13,222	...
Dharwar-Bijapur do. ...	...	...	...	...	...
School do. ...	...	...	...	...	...
Total ...	365	13,260	13,625	13,260	365

*Famine grass.

Name of Division or Range.	Balance at commencement of the year in Forests and Sale Depôts.	Received during the year.	Total.	Disposed of during the year.	Balance in hand at close of the year in Forests and Sale Depôts.
1	2	3	4	5	6
SOUTHERN CIRCLE —*concluded.*	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
Drift and waif wood and confiscated Forest Produce.					
Kánara, Northern Division ...Value.	2,455	.....	2,455	64	2,391
Kánara, Eastern Division ... ,,	.....	.....	.....	.....	...
Kánara, Central Division ... ,,	59	.....	59	2	57
Kánara, Southern Division ... ,,	.....	.....	.....	.....	...
Kánara, Western Division ... ,,	.....	50	50	50	...
Belgaum Division ... ,,	.....	64	64	64	...
Dhárwár-Bijápur Division ... ,,	.....	6	6	1	5
School Division ... ,,	.....	.....	.....	.....	...
Total ... Value	2,514	120	2,634	181	2,453
Total, Southern Circle ... { Cubic feet	3,172,982	5,267,585	8,440,567	6,180,320	2,260,247
Rs. ...	2,899	94,369	97,268	31,579	65,689
SIND CIRCLE.					
Timber.	C. ft.	C. ft.	C. ft.	C. ft.	C. ft.
Sukkur	5,605	3,584	9,189	8,320	869
Shikarpur	.....	4,501	4,501	1,876	2,625
Lárkána	20	485	505	395	110
Hyderabad	.....	6,263	6,263	6,263	...
Karáchi	.....	.....	.....	.....	...
Total ...	5,625	14,833	20,458	16,854	3,604
Fuel.	C. ft.	C. ft.	C. ft	C. ft.	C. ft.
Sukkur	96,952	388,543	485,495	450,852	34,643
Shikarpur	13,057	51,425	64,482	47,401	17,081
Lárkána	164,763	31,223	195,986	195,161	825
Hyderabad	228,699	966,202	1,194,901	1,024,569	170,332
Karáchi	188,680	1,965,183	2,153,863	1,623,789	530,074
Total ...	692,151	3,402,576	4,094,727	3,341,772	752,955
Minor Forest Produce.	Rs.	Rs.	Rs.	Rs.	Rs.
Sukkur ...Value.	732	1,648	2,380	1,792	588
Shikarpur ... ,,	194	1,281	1,475	1,119	356
Lárkána ... ,,	280	1,332	1,612	1,604	8
Hyderabad ... ,,	2,235	6,927	9,162	8,320	842
Karáchi ... ,,	1,065	4,533	5,598	5,598	...
Total ...Value	4,506	15,721	20,227	18,433	1,794
Total, Sind Circle ...	C. ft. 697,776	C. ft. 3,417,409	C. ft. 4,115,185	C. ft. 3,358,626	C. ft. 756,559
Rs. ...	Rs. 4,506	Rs. 15,721	Rs. 20,227	Rs. 18,433	Rs. 1,794
Grand Total, Presidency, { C. ft. ...	4,628,884	10,538,035	15,166,919	11,169,108	3,997,811
Lbs. ...	.....	119,044	119,044	119,044	...
Rs. ...	14,746	113,106	127,852	60,269	67,583

FORM No. 66.—*Abstract showing the value of Timber and other Produce at Sale Depôts for the year 1921-22.*

Description of Timber and other Forest Produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in Value.		Remarks.
	No.	Cubic feet.	Value.	No.	Cubic feet.	Value.	In favour of the year.	Against the year.	
1	2	3	4	5	6	7	8	9	10
			Rs.			Rs.	Rs.	Rs.	
NORTHERN CIRCLE.									
Timber	...	1,62,071	1,57,005	...	2,54,461	1,66,373	9,368	...	
Fuel	...	2,00,539	31,698	...	3,04,883	10,174	...	21,524	
Sandalwood	...	...	...	...	.....	100	100	...	
Minor Forest Produce ...	...	.....	6,841	...	.....	...	...	6,841	
Total, Northern Circle ...	...	.....	1,95,544	...	.....	1,76,647	9,468	28,365	Net difference against the year—Rs. 18,897.
CENTRAL CIRCLE.									
Timber	...	5,130	2,731	...	6,837	3,472	741	...	
Sandalwood	...	.....	500	...	.....	...	...	500	
Firewood	...	390,386	15,279	...	4,14,824	29,923	14,644	...	
Mhowra	...	...	...	...	.....	...	...	...	
Total, Central Circle ...	...	.....	18,510	...	.....	33,395	15,385	500	Net difference in favour of the year—Rs. 14,885.

FORM No. 66.—*Abstract showing the value of Timber and other Produce at Sale Depôts for the year 1921-22*—concluded.

Description of Timber and other Forest Produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in Value.		Remarks.
	No.	Cubic feet.	Value.	No.	Cubic feet.	Value.	In favour of the year.	Against the year.	
1	2	3	4	5	6	7	8	9	10
SOUTHERN CIRCLE.			Rs.			Rs.	Rs.	Rs.	
Timber.									
Teak	92,467	793,157	19,64,879	1,04,233	8,48,070	18,74,318	...	90,561	
Blackwood	4,195	49,066	94,051	2,771	38,139	65,885	...	28,166	
Junglewood	27,628	555,744	5,73,601	30,490	4,61,023	3,89,307	...	1,84,294	
Total Timber ...	124,290	1,397,967	26,32,531	1,37,494	13,47,232	23,29,510	...	3,03,021	
Fuel	...	1,775,015	1,37,848	...	9,13,015	81,753	...	56,095	
Sandalwood ... ... ,,	...	...	20	...	...	62,871	62,851	...	
Minor Forest Produce ... ,,	...	...	365	...	...	365	...	...	
Drift and waif-wood and confiscated forest produce ...	...	...	2,514	...	...	2,453	...	61	
Total, Southern Circle ...	...	...	27,73,278	...	...	24,76,952	62,851	3,59,177	Net difference against the year—Rs. 2,96,326.
SIND CIRCLE.									
Timber	6,950	5,625	1,404	5,659	3,604	2,890	1,486	...	
Fuel	13	692,151	45,775	3	7,52,955	43,831	...	1,944	
Minor Produce	...	...	4,506	897	...	1,794	...	2,712	
Total, Sind Circle ...	...	...	51,685	...	...	48,515	1,486	4,656	Net difference against the year—Rs. 3,170.
GRAND TOTAL, PRESIDENCY ...	...	...	30,39,017	...	...	27,35,509	89,190	3,92,698	Net difference against the year—Rs. 3,03,508.

FORM No. 67.—*Abstract showing the value of Live and Dead Stock for the year 1921-22.*

Description of Live and Dead Stock.	On hand at commencement of the year.		On hand at close of the year.		Difference in Value.		Remarks.
	No.	Value.	No.	Value.	In favour of the year.	Against the year.	
1	2	3	4	5	6	7	8
CHIEF DIRECTION DIVISION.		Rs.		Rs.	Rs.	Rs.	
Tents (Servants' pals)	2	266	2	253	...	13	Figures in Column 7 show depreciation at 5 per cent.
Office furniture, etc.	...	352	...	569	235	18	
Remington Typewriter	1	520	1	494	...	26	
Hammond do.	1	295	1	280	...	15	
Roneo Duplicator	1	428	1	407	...	21	
Office Clock. ...	1	93	1	88	...	5	
Time Piece. ...	1		1				
Total ...	7	1,954	7	2,091	235	98	Net in favour of the year Rs. 137.
UTILIZATION CIRCLE.							
Remington Typewriter No. 11 Brief.	1	491	1	466	...	25	
Office furniture, etc.	...	272	...	258	...	14	
Total, Utilization Circle ...	...	763	...	724	...	39	
BOMBAY FOREST COLLEGE.							
Dead Stock.							
Surveying and other Instruments.	...	6,415	...	1,083	...	5,332	
Tools. ...	...	324	...	313	...	11	
Furniture	...	4,246	...	2,614	...	1,632	
Tents. ...	...	15,470	...	4,910	...	10,560	
Uniforms and accoutrements ...	...	3	...	..	...	3	
Total, Bombay Forest College ...	...	26,458	...	8,920	...	17,538	
NORTHERN CIRCLE.							
Live Stock.							
Bullocks	2	113	1	50	...	63	
Buffaloes	...	...	2	60	60	...	
Total ...	2	113	3	110	60	63	
Dead Stock.							
Buildings	347	4,64,270	367	4,94,308	30,038	...	
Copying machines...	8	...	8	...	...	...	
Cyclostyles...	9	...	9	...	...	...	
Carts	7	114	7	109	...	5	
Hay presses	63	72,281	90	*	...	...	*Not known.
Steel wire ropes	12	...	12	...	...	...	
Typewriters, Remington	10	...	10	...	...	...	
Typewriter, Hammond	2	564	2	536	...	28	

FORM No. 67.—*Abstract showing the value of Live and Dead Stock for the year 1921-22*—continued.

Description of Live and Dead Stock.	On hand at commencement of the year.		On hand at close of the year.		Difference in Value.		Remarks.
	No.	Value.	No.	Value.	In favour of the year.	Against the year.	
1	2	3	4	5	6	7	8
NORTHERN CIRCLE—*concluded.*		Rs.		Rs.	Rs.	Rs.	
Dead Stock—concluded.							
Tents and Raoties	33	4,400	33	4,180	...	220	
Fowler train	1	27,075	1	25,721	...	1,354	
Saw sharpening machine	1	257	1	225	...	32	
Clips	38	...	38	...	...	...	
Small stands	6	...	6	...	...	...	
Large do.	2	...	2	...	...	...	
Big bolts	9	...	9	...	...	...	
Office furniture, etc.	...	39,300	...	39,111	...	189	
Seed rubbing cylindrical Machine ...	1	76	1	72	...	4	
Bicycle ...	1	148	1	140	...	8	
Saw mill machinery	...	...	...	2,275	2,275	...	
Partable Steam Engine	...	...	1	18,182	18,182	...	
Cart weighting machine	...	...	1	2,489	2,489	...	
Total ...	550	6,08,485	599	5,87,348	52,984	1,840	Net difference in favour of the year Rs. 51,144 exclusive of the value of the Hay presses.
TOTAL, NORTHERN CIRCLE ...	552	6,08,598	602	5,87,458	53,044	1,903	
CENTRAL CIRCLE.							
Dead Stock.							
Buildings	177	1,98,592	195	2,06,045	7,453	...	
Tents	6	1,352	7	1,373	21	...	
Rahuties (Cabul Pal and Fans) ..	28	2,154	32	2,476	322	...	
Tools, plant and office furniture ...	...	37,085	...	36,217	...	868	
Remington Typewriters	9	...	9	...	...	...	
Empire do.	2	...	2	...	...	...	
Copying machines	4	...	4	...	...	...	
Cyclostyles	5	...	5	...	...	...	
Boat with fittings	1	1,158	1	1,100	...	58	
Boom with accessories	...	515	...	486	...	29	
Road-roller	1	475	1	448	...	27	
Bicycles	1	179	3	600	421	...	
Dugout boats	...	...	4	210	210	...	
Total, Central Circle ...	234	2,41,510	263	2,48,955	8,427	982	Net difference in favour of the year is Rs. 7,445.
SOUTHERN CIRCLE.							
Live Stock.							
Buffaloes and Bullocks ..	47	2,324	64	4,159	1,835	...	
Dead Stock.							
Buildings	374	4,12,811	385	4,54,081	41,270	...	
Tents	8	1,945	8	1,848	...	97	
Raoties	29	2,284	36	3,010	726	...	3 Hammond and 1 Empire Typewriters were sent to the Superintendent of Stationery Bombay, and 2 Remington 1 Underwood and 1 Corona Typewriters were received in exchange. Besides this 2 more Remington Typewriters were received 1 for W. D. R. and 1 for Dharwar Bijapur Division.
Tools, plant and office furniture ...	...	75,237	...	90,888	15,651	...	
Typewriters, Remington ...	4		8		...	...	
Do. Empire	3	Not known	2	Not known	...	...	
Do. Hammond ...	7		4		...	...	
Do. Corona ...	1		2		...	...	
Do. Underwood	...		1		...	...	

FORM No. 67.—*Abstract showing the value of Live and Dead Stock for the year 1921-22*—concluded.

Description of Live and Dead Stock.	On hand at commencement of the year.		On hand at close of the year.		Difference in Value.		Remarks.
	No.	Value.	No.	Value.	In favour of the year.	Against the year.	
1	2	3	4	5	6	7	8
SOUTHERN CIRCLE —*concluded.*		Rs.		Rs.	Rs.	Rs.	
Dead Stock—concluded.							
Cyclostyles	8	not known	8	not known	...	...	
Copying machines	2	Do.	2	Do.	...	...	
Ferro Prussiate Printing Frame ...	1	345	1	328	...	17	
Trolly wheels set	1	108	1	103	...	5	
Parts	47	2,431	47	2,309	...	122	
Guns	5	148	5	141	...	7	
Bicycles	8	975	11	1,632	657	...	
Iron safes	15	1,769	15	1,681	...	88	
Monorail materials	...	14,648	...	13,916	...	732	
Saw-mills (steam power) ...	6	1,10,646	6	1,07,454	...	3,192	
Distillation plant	1	751	1	713	...	38	Out of order.
Wind-lass	1	990	1	940	...	50	
Crab winch	1	40	1	38	...	2	
Total ...	522	6,25,128	545	6,79,082	58,304	4,350	
Total, Southern Circle ...	569	6,27,452	609	6,83,241	60,139	4,350	Net in favour of the years Rs. 55,789.
SIND CIRCLE.							
Live Stock.							
Bullocks	4	56	4	48	...	8	
Camels	12	449	8	285	...	164	
Total ...	16	505	12	333	...	172	
Dead Stock.							
Buildings	87	69,597	89	72,786	3,189	...	
Tents	18	4,702	15	4,108	...	594	
Stores, Mathematical ...	841	5,243	869	5,040	...	203	
Tools, plant and office furniture ...	3,145	17,098	3,307	17,531	433	...	
Remington Typewriters ...	8	...	8	...	...	...	
Copying machine	1	...	1	...	...	...	
Iron safes	1	173	1	165	...	8	
Bicycles	2	300	2	285	...	15	
Total ...	4,103	97,113	4,292	99,915	3,622	820	
Total, Sind Circle ...	4,119	97,618	4,304	1,00,248	3,622	992	Net difference in favour of the year Rs. 2,630.
GRAND TOTAL, PRESIDENCY ...	...	16,04,353	...	16,31,637	1,25,467	25,902	Net in favour of the year. Rs. 99,565 exclusive of the value of hay presses in the Northern Circle.

Allowance for deterioration in the value of Live and Dead stock at 15 per cent. and 5 per cent. respectively has been made as per Ch. Conservators' No. 609 of 17th September 1919.

FORM No. 68.

FORM No. 68.—*Summary of Revenue and Expenditure of the different Divisions for the forest year 1921-1922.*

Budget Head.	Direction.	Panch Mahals Division.	Surat Division.	North Thana Division.	West Thana Division.	East Thana Division.	West Nasik Division.	East Nasik Division.	Total for the forest year 1921-1922.
NORTHERN CIRCLE.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
REVENUE.									
I.—Timber and other Produce removed from the Forests by Government Agency—									
a. Timber	.....	.....	1,35,944 5 10	55,032 8 0	22,496 1 8	27,891 6 0	14,977 13 0	178 8 0	2,56,520 10 6
b. Firewood and charcoal... ...	.....	112 0 0	.....	163 12 0	130 5 0	2,463 14 0	45 0 0	.....	2,914 15 0
c. Bamboos	.....	.....	308 0 0	.....	.....	.....	.....	.....	308 0 0
d. Sandalwood ...	.....	.....	.....	.....	.....	.....	.....	184 0 0	184 0 0
e. Grass and other minor produce...	.....	.....	6,811 2 10	.....	.....	.....	.....	.....	6,811 2 10
Total, I ...	.....	112 0 0	1,43,063 8 8	55,193 4 0	22,626 6 8	30,355 4 0	15,022 13 0	362 8 0	2,66,738 12 4
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers—									
a. Timber	.....	1,66,174 1 6	1,62,209 10 6	9,55,542 14 3	3,81,025 15 1	2,95,070 6 9	83,617 7 0	8,616 15 0	20,52,253 6 1
b. Firewood and charcoal... ...	.....	1,307 8 0	986 8 0	830 0 9	1,280 14 3	247 10 0	3,130 0 0	9,068 11 0	16,851 4 0
c. Bamboos	.....	1,806 4 4	20,596 14 9	10,657 7 6	4,971 8 0	4,834 4 6	5,381 14 0	81 14 0	48,330 3 1
d. Grazing and fodder grass ..	.....	18,333 13 0	1,159 0 4	150 1 0	2,890 5 0	8,331 6 0	24,115 10 0	36,385 3 6	91,365 6 10
e. Other minor produce	.....	9,709 15 6	3,475 11 8	216 6 0	3,230 15 6	4,008 6 0	5,300 14 0	5,933 8 9	31,875 13 5
f. Other items ...	.....	.....	.....	.....	.....	.....	.....	.....	.....
g. Commutation fees	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total, II ...	.....	1,97,391 10 4	1,88,427 13 3	9,67,396 13 6	3,93,399 9 10	3,12,498 1 3	1,21,545 13 0	60,086 4 3	22,40,746 1 5
III.—Drift and Waif Wood and Confiscated Forest Produce...	.....	117 0 0	8 0 0	54 14 0	20 0 3	181 10 0	33 1 0	83 5 6	497 14 9
Total, III ...	.....	117 0 0	8 0 0	54 14 0	20 0 3	181 10 0	33 1 0	83 5 6	497 14 9
IV.—Revenue from Forests not managed by Government—									
a. Duty on foreign timber and other forest produce...	.....	.....	.....	.....	.....	.....	.....	.....	.....
b. Revenue from shared and private Forests ...	.....	.....	321 4 2	.....	2,150 1 8	73 10 0	.....	.....	2,544 15 10
Total, IV ...	.....	.....	321 4 2	.....	2,150 1 8	73 10 0	.....	.....	2,544 15 10
V.—Miscellaneous—									
a. Fines and forfeitures	.....	448 5 10	310 0 0	100 12 0	2,375 9 0	5,550 14 9	640 0 0	716 8 0	10,142 1 7
b. Refunds	540 0 0	400 12 7	443 7 0	193 8 5	4 1 0	23 14 6	646 4 10	17 4 0	2,269 4 4
c. Other sources ...	677 6 11	14,304 13 11	2,135 14 5	6,553 10 5	7,432 9 11	6,533 15 6	4,504 4 0	4,218 0 3	46,660 11 4
Total, V ...	1,217 6 11	15,154 0 4	2,889 5 5	6,847 14 10	9,812 3 11	12,408 12 9	5,790 8 10	4,951 12 3	59,072 1 3
Deduct—Refunds...	.....	—417 8 0	—1,759 0 3	—308 13 0	—137 4 6	—474 9 7	—830 11 0	—97 8 0	—4,025 5 4
Grand Total, Revenue.	1,217 6 11	2,12,357 2 8	3,32,950 15 3	10,29,187 2 4	4,27,871 1 10	3,55,042 12 5	1,41,561 8 10	65,386 6 0	25,65,574 8 3
EXPENDITURE.									
A.—CONSERVANCY AND WORKS.									
I.—Timber and other Produce removed from the Forests by Government Agency—									
a. Timber	2 0 0	74 14 9	1,21,934 5 2	20,537 7 11	6,970 7 9	6,334 11 9	7,040 8 8	61 12 0	1,62,956 4 0
b. Firewood and charcoal... ...	.....	.....	.....	.....	39 8 0	1,683 13 6	92 4 0	.....	1,815 9 6
c. Bamboos	.....	.....	176 0 0	.....	.....	.....	.....	.....	176 0 0
d. Sandalwood ..	.....	.....	.....	.....	.....	.....	12 13 0	.....	12 13 0
e. Grass and other minor produce...	.....	129 2 7	2,143 12 2	.....	.....	288 9 10	21 3 1	.....	3,283 11 8
Total, A-I ...	2 0 0	204 1 4	1,24,254 1 4	20,537 7 11	7,009 15 9	9,007 3 1	7,166 12 9	61 12 0	1,68,243 6 2
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers	.....	3,661 14 0	7,410 8 11	6,528 1 6	5,506 8 8	4,972 12 1	2,402 13 5	191 0 2	30,673 10 9
Total, A-II ...	.....	3,661 14 0	7,410 8 11	6,528 1 6	5,506 8 8	4,972 12 1	2,402 13 5	191 0 2	30,673 10 9
III.—Drift and Waif Wood and Confiscated Forest Produce ...	.....	.....	.....	0 12 0	3 2 0	7 2 0	21 0 0	.....	32 0 0
Total, A-III ...	.....	.....	.....	0 12 0	3 2 0	7 2 0	21 0 0	.....	32 0 0
IV.—Revenue from Forests not managed by Government—									
a. Duty on foreign timber and other forest produce...	.....	.....	.....	.....	.....	.....	.....	.....	.....
b. Revenue from shared and private Forests ...	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total, A-IV ...	.....	.....	.....	.....	.....	.....	.....	.....	.....

FORM No. 68.—*Summary of Revenue and Expenditure of the different Divisions for the forest year 1921-1922*—continued.

Budget Head.	Direction.	Panch Mahâis Division.	Surat Division.	North Thâna Division.	West Thâna Division.	East Thâna Division.	West Násik Division.	East Násik Division.	Total for the forest year 1921-1922.
EXPENDITURE—*continued.*	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
A.—CONSERVANCY AND WORKS—*continued.*									
V.—Rent of leased Forests and Payments to Shareholders in Forests managed by Government ..	.....	.....	17,879 6 8	.....	752 6 0	1,216 11 10	.....	1 6 5	19,849 14 11
Total, A-V ..	.....	.....	17,879 6 8	.....	752 6 0	1,216 11 10	.....	1 6 5	19,849 14 11
VI.—Live-Stock, Stores, Tools and Plant—									
a. Purchase of cattle ...	.....	.....	.....	.....	.....	.....	.....	.....	.....
b. Feed and keep of cattle ...	.....	.....	272 6 3	.....	.....	.....	.....	.....	272 6 3
c. Purchase of stores, tools and plant ...	2 0 0	99 2 0	32,388 9 11	178 10 9	63 12 0	290 10 0	1,148 8 0	10 8 0	34,181 12 8
Total, A-VI ..	2 0 0	99 2 0	32,661 0 2	178 10 9	63 12 0	290 10 0	1,148 8 0	10 8 0	34,454 2 11
VII.—Communications and Buildings—									
a. Roads and bridges ...	79 0 0	.....	46,867 2 10	4,573 13 10	621 0 6	5,193 1 3	2,791 6 0	1,645 1 9	61,770 10 2
b. Buildings	.....	2,439 9 3	16,331 11 0	9,040 10 4	11,926 3 5	19,827 3 1	9,670 6 9	22 0 0	69,317 11 10
c. Other works	45 7 6	490 1 0	2,081 13 3	7 5 0	692 8 0	1,696 2 6	112 2 6	.....	5,134 7 6
Total, A-VII ...	124 7 6	2,998 10 3	65,280 11 1	13,621 13 2	13,239 11 11	26,716 6 10	12,573 15 3	1,667 1 9	1,36,222 13 9
VIII.—Organization, Improvement and Extension Forest—									
a. Demarcation	.....	25 14 6	112 8 6	533 1 3	232 2 6	518 9 6	255 11 1	271 13 10	1,949 12 8
b. Cost of Forest Settlements and Compensation for land and rights	8,535 8 0	.....	.....	.....	1,658 6 3	1,032 3 7	57 8 0	.....	11,283 9 10
c. Surveys	.....	.....	.....	.....	.....	.....	.....	.....	.....
d. Working-plans ...	14 0 0	437 10 6	440 11 9	929 15 4	532 2 0	672 13 2	389 13 6	504 14 0	3,922 0 3
e. Sowing and planting...	220 5 0	1,114 1 6	707 10 3	8,405 7 3	4,075 0 6	3,119 6 0	1,562 3 0	192 10 0	19,396 11 6
f. Protection from fire...	.....	2,831 14 1	7,799 8 6	3,173 11 0	1,055 2 0	3,217 3 0	97 2 0	171 14 0	19,246 6 7
g. Other works	.....	.....	1,287 0 0	236 2 0	128 14 0	15 4 0	100 0 0	20 0 0	1,787 4 0
Total, A-VIII ...	8,769 13 0	4,409 8 1	10,347 7 0	13,278 4 10	8,581 12 3	8,575 7 3	2,462 5 7	1,161 3 10	57,585 12 10
IX.—Miscellaneous—									
a. Law charges	.....	.....	.....	.....	.....	.....	.....	.....	.....
b. Grain Compensation	.....	.....	.....	.....	.....	.....	.....	.....	.....
c. Other charges ...	529 2 0	3,387 5 3	3,474 2 4	4,160 6 6	3,780 6 4	6,197 2 11	2,465 4 0	4,175 4 11	28,169 2 3
Total, A-IX ...	529 2 0	3,387 5 3	3,474 2 4	4,160 6 6	3,780 6 4	6,197 2 11	2,465 4 0	4,175 4 11	28,169 2 3
TOTAL, A.—CONSERVANCY AND WORKS	9,427 6 6	14,760 8 11	2,61,367 5 6	58,305 8 8	38,937 9 11	56,983 8 0	28,240 11 0	7,268 5 1	4,75,230 15 7
B.—ESTABLISHMENTS.									
I.—Salaries—									
a. Conservators	22,015 0 0	.....	.....	.....	.....	.....	.....	.....	22,015 0 0
b. Superior } Voted ...	.....	5,908 6 2	22,365 11 2	3,172 4 11	6,305 8 4	5,953 5 4	16,008 1 0	7,309 8 1	67,022 13 0
Officers. } Non-voted.	647 8 0	.....	12,754 1 3	23,411 4 4	.....	.....	.....	.....	36,812 13 7
c. Subordinate Forest and Depôt Establishments	.....	42,771 7 7	44,701 1 8	47,186 13 11	56,759 13 2	54,671 3 3	28,705 15 1	46,993 3 0	3,21,789 9 3
d. Office Establishments.	11,188 11 9	8,843 11 7	12,983 5 7	12,330 0 9	9,314 7 4	9,944 5 0	8,291 2 10	11,694 2 0	84,592 14 10
e. Deputation and Special Allowances..	912 15 6	1,185 11 8	14,109 13 4	1,041 15 8	2,080 1 4	2,473 14 10	3,508 13 2	483 7 11	25,796 13 5
f. Grain Compensation Allowance	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total, B-I ..	34,764 3 3	58,709 5 0	1,06,917 1 0	87,142 7 7	74,459 14 2	73,042 12 5	56,514 0 1	66,480 5 0	5,58,030 0 6
II.—Travelling Allowances—									
a. Conservators	4,945 8 0	.....	.....	.....	.....	.....	.....	.....	4,945 8 0
b. Superior Officers ...	288 12 0	2,635 13 4	10,406 0 7	5,525 5 7	2,647 9 10	2,259 15 4	3,408 7 0	2,795 11 8	29,967 11 4
c. Subordinate Forest and Depôt Establishments	.....	4,941 7 2	7,195 5 9	6,586 9 8	6,235 9 9	5,672 4 3	4,763 5 2	5,411 4 1	40,810 13 10
d. Office Establishments.	2,275 7 10	843 15 5	2,134 14 4	1,197 7 2	1,096 14 3	1,371 13 8	822 15 7	1,287 9 8	11,081 1 11
e. Forest School (Dehra Dun)	.....	.....	404 10 10	372 9 4	25 0 0	37 1 6	.....	.....	839 5 8
Total, B-II ...	7,509 11 10	8,421 3 11	20,140 15 6	13,681 15 9	10,005 1 10	9,341 2 9	8,999 11 9	9,494 9 5	87,644 8 9
III.—Contingencies—									
a. Stationery	25 3 0	301 3 9	276 3 1	337 6 2	348 0 11	392 5 2	271 8 6	826 8 7	2,278 7 2
b. Carriage of Tents and Records	594 14 0	601 8 0	1,274 10 0	969 0 10	410 4 6	462 15 3	409 0 5	526 1 0	5,158 6 0
c. Rents, rates and taxes	2,796 3 6	106 0 0	768 8 7	100 10 3	23 8 10	38 8 0	69 10 6	500 0 0	4,403 2 10
d. Pay of Police Guards.	.....	.....	.....	.....	.....	.....	.....	.....	.....
e. Official postage ..	701 12 9	1,096 11 9	1,177 7 6	1,304 3 9	1,700 0 0	977 12 0	593 3 3	852 5 0	8,403 8 0
f. Sundries	452 5 8	523 6 4	1,488 1 5	1,703 10 5	588 8 2	927 7 9	367 7 3	332 3 3	6,384 2 3
Total, B-III ...	4,480 6 11	2,628 13 10	4,984 14 7	4,414 15 7	3,070 6 5	2,799 0 2	1,710 13 11	2,538 1 10	26,627 9 3
TOTAL, B—ESTABLISHMENTS	46,754 6 0	69,759 6 9	1,02,092 15 1	1,05,239 6 11	87,540 6 5	85,182 15 4	67,224 9 9	78,513 0 3	6,72,302 2 6
GRAND TOTAL OF EXPENDITURE	56,181 12 6	84,519 15 8	3,93,400 4 7	1,63,544 15 7	1,26,473 0 4	1,42,166 7 4	95,465 4 9	85,781 5 4	11,47,533 2 1
SURPLUS OR DEFICIT ...	−54,964 5 7	+1,27,837 3 0	−60,449 5 4	+8,65,642 2 9	+3,01,398 1 0	+2,12,876 5 1	+46,096 4 1	−20,394 15 4	+14,18,041 6 2

FORM No. 68.—*Summary of Revenue and Expenditure of the different Divisions for the Forest year 1921-1922.*

Budget Head.	Direction.	East Khándesh Division.	West Khándesh Division.	North Khándesh Division.	Poona Division.	Sátára Division.	Kolába Division.	Working Plans Division.	Satára Famine Fodder Division.	Total for the Forest year 1921-22.
CENTRAL CIRCLE.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
REVENUE.										
I.—Timber and other Produce removed from the Forests by Government Agency—										
a. Timber	.....	562 0 0	.....	146 0 0	432 2 0	116 0 0	.....	.....	.....	1,256 2 0
b. Firewood and charcoal	.....	295 0 0	.....	.....	14,167 15 0	7,458 15 11	7,741 2 0	.....	.....	29,663 0 11
c. Bamboos	.....	.....	.....	.....	80 13 0	1,679 0 0	.....	.....	.....	1,759 13 0
d. Sandalwood	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
e. Grass and other minor produce ...	.....	150 0 0	7,516 11 0	2,247 1 3	1,105 11 8	89 4 0	.....	.....	9 3 0	11,147 14 11
Total, I ...	.....	1,007 0 0	7,516 11 0	2,393 1 3	15,786 9 8	9,343 3 11	7,741 2 0	.....	9 3 0	43,826 14 10
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers—										
a. Timber	.....	12,696 13 0	99,107 8 0	36,942 15 6	43,157 14 0	16,827 0 6	2,24,151 10 10	.....	.....	4,32,883 13 10
b. Firewood and charcoal	.....	19,387 10 6	9,301 0 0	4,751 3 0	29,199 0 9	342 15 6	4,226 12 9	.....	.....	67,208 10 6
c. Bamboos	.....	6,841 7 0	450 12 0	1,762 5 6	165 6 0	118 10 0	.....	.....	.....	9,338 8 6
d. Grazing and fodder-grass	.....	93,963 6 0	43,352 15 0	44,205 12 0	54,359 5 0	52,149 4 0	11,672 15 0	.....	.....	2,99,703 9 0
e. Other minor produce	.....	2,176 13 6	9,960 5 0	6,449 8 0	4,999 2 6	9,827 8 0	3,344 3 3	.....	.....	36,457 8 3
f. Other items ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
g. Commutation fees ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total, II ...	.....	1,35,066 2 0	1,61,872 8 0	94,111 12 0	1,31,880 12 3	79,265 6 0	2,43,495 9 10	.....	.....	8,45,592 2 1
III.—Drift and Waif Wood and Confiscated Forest Produce ...	.....	264 8 3	482 8 9	193 14 3	493 5 0	118 14 9	397 13 3	.....	.....	1,951 0 3
Total, III ...	.....	264 8 3	482 8 9	193 14 3	493 5 0	118 14 9	397 13 3	.....	.....	1,951 0 3
IV.—Revenue from Forests not managed by Government—										
a. Duty on foreign timber and other forest produce ...	.....	4,635 2 0	.....	3,221 6 0	.....	.....	.....	.....	.....	7,856 8 0
b. Revenue from shared and private forests	.....	.....	.....	.....	22 5 7	.....	6 2 0	.....	.....	28 7 7
Total, IV ...	.....	4,635 2 0	.....	3,221 6 0	22 5 7	.....	6 2 0	.....	.....	7,884 15 7
V.—Miscellaneous—										
a. Fines and forfeitures	.....	2,814 12 0	941 8 0	1,674 5 6	919 2 0	1,320 15 9	1,696 12 0	.....	.....	9,367 7 3
b. Refunds	97 4 0	61 4 6	10 8 4	182 15 7	41 8 6	106 12 6	.....	2 0 0	.....	502 5 5
c. Other sources ...	752 4 1	8,968 11 3	9,424 7 8	12,596 12 2	9,845 1 3	9,960 10 10	8,917 12 1	.....	.....	60,465 11 4
Total, V ...	849 8 1	11,844 11 9	10,376 8 0	14,454 1 3	10,805 11 9	11,388 7 1	10,614 8 1	2 0 0	.....	70,335 8 0
Deduct Refunds ...	.....	−38 12 0	.....	−24 12 9	−1,343 9 4	−172 8 0	−191 14 0	.....	.....	−1,831 8 1
Grand Total, Revenue ...	849 8 1	1,52,778 12 0	1,80,278 3 9	1,14,349 6 0	1,57,645 2 11	99,913 7 9	2,62,052 1 2	2 0 0	9 3 0	9,67,907 12 8
EXPENDITURE.										
A.—CONSERVANCY AND WORKS.										
I—Timber and other Produce removed from the Forests by Government Agency—										
a. Timber	.....	531 10 0	.....	56 6 0	120 12 0	32 10 0	.....	.....	.....	741 6 0
b. Firewood and charcoal	.....	94 2 0	.....	.....	1,388 8 0	6,073 13 0	8,578 5 0	.....	.....	16,134 12 0
c. Bamboos	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
d. Sandalwood	.....	.....	.....	.....	9 0 0	.....	15 2 0	.....	.....	24 2 0
e. Grass and other minor produce ...	.....	.....	4,103 3 1	1,269 7 0	746 12 6	43 4 0	.....	.....	.....	6,162 10 7
Total, A-I ...	.....	625 12 0	4,103 3 1	1,325 13 0	2,265 0 6	6,149 11 0	8,593 7 0	.....	.....	23,062 14 7
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers.	.....	5,183 3 1	4,278 5 9	5,703 12 9	1,367 3 0	229 10 0	2,592 13 2	.....	.....	19,354 15 9
Total, A-II ...	.....	5,183 3 1	4,278 5 9	5,703 12 9	1,367 3 0	229 10 0	2,592 13 2	.....	.....	19,354 15 9
III.—Drift and Wait Wood and Confiscated Forest Produce ...	.....	9 8 0	.....	9 2 0	6 0 0	.....	7 12 0	.....	.....	32 6
Total, A-III ...	.....	9 8 0	.....	9 2 0	6 0 0	.....	7 12 0	.....	.....	32 6
IV.—Revenue from Forests not managed by Government—										
a. Duty on foreign timber and other forest produce ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
b. Revenue from shared and private Forests	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total, A-IV ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

FORM No. 68.—*Summary of Revenue and Expenditure of the different Divisions for the Forest year 1921-22*—continued.

Budget Head.	Direction.	East Khándesh Division.	West Khándesh Division.	North Khandesh Division.	Poona Division.	Sátára Division.	Kolába Division.	Working Plans Division.	Sátára Famine Fodder Division.	Total for the Forest year 1921-22.
EXPENDITURE—*continued.*	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
A.—CONSERVANCY AND WORKS—*continued.*										
V.—Rent of leased Forests and Payments to Shareholders in Forests managed by Government	.....	.....	.....	.....	157 5 4	3,492 3 11	22,204 3 6	.....	.....	25,853 12 9
Total, A-V ...	...	.....	.....	.....	157 5 4	3,492 3 11	22,204 3 6	.....	... ...	25,853 12 9
VI.—Live-stock, Stores, Tools and Plant—										
a. Purchase of cattle	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
b. Feed and keep of cattle	.....	... ...	.....	.....	.....	.....	.....	.....	.....	.....
c. Purchase of stores, tools and plant...	428 0 0	609 3 0	297 11 0	281 1 1	729 12 0	203 1 0	449 0 8	31 6 0	.....	3,029 2 9
Total, A-VI ...	428 0 0	609 3 0	297 11 0	281 1 1	729 12 0	203 1 0	449 0 8	31 6 0	.....	3,029 2 9
VII.—Communications and Buildings—										
a. Roads and Bridges	.....	591 15 0	437 9 0	399 0 6	91 12 6	195 0 0	134 2 0	.....	.....	1,849 7 6
b. Buildings... ...	.....	5,403 3 2	1,109 1 9	5,877 6 6	1,297 10 9	934 6 0	3,688 6 10	.....	.....	18,310 3 0
c. Other works ...	... ...	92 8 0	118 8 9	229 14 0	5 1 0	562 14 0	.....	.....	.....	1,008 13 9
Total, A-VII ...	.....	6,087 10 2	1,665 3 6	6,506 5 0	1,294 8 3	1,692 4 0	3,822 8 10	.....	.....	21,168 7 9
VIII.—Organization, Improvement and Extension of Forest—										
a. Demarcation ...	.....	107 7 0	194 14 0	39 1 0	415 13 6	529 7 0	304 4 0	.....	.....	1,590 14 6
b. Cost of Forest Settlements and Compensation for land and rights ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
c. Surveys	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
d. Working Plans ...	.....	897 1 2	155 8 6	379 11 0	382 12 9	121 11 3	580 7 9	1,094 10 1	.....	3,611 14 6
e. Sowing and Planting	.....	204 12 0	213 0 0	54 11 0	1,907 3 3	529 5 7	802 8 0	.....	.....	3,801 7 10
f. Protection from Fire	.....	2,259 8 0	5,091 13 9	1,944 14 3	135 2 0	98 0 0	272 3 9	.....	.....	9,801 9 9
g. Other works ...	.....	15 0 0	202 15 0	243 14 6	107 15 0	47 14 0	351 13 0	.....	.....	968 7 6
Total, A-VIII ...	.....	3,483 12 2	5,858 3 3	2,659 3 9	3,038 14 6	1,326 5 10	2,311 4 6	1,094 10 1	.....	19,772 6 1
IX.—Miscellaneous—										
a. Law charges ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
b. Grain compensation	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
c. Other charges ...	16 6 0	4,327 2 4	2,937 15 0	3,654 10 4	5,665 6 2	3,676 2 9	7,052 11 2	128 5 0	.....	27,458 10 9
Total, A-IX ...	16 6 0	4,327 2 4	2,937 15 0	3,654 10 4	5,665 6 2	3,676 2 9	7,052 11 2	128 5 0	.....	27,458 10 9
TOTAL A.—CONSERVANCY AND WORKS...	444 6 0	20,326 2 9	19,140 9 7	20,139 15 11	14,624 1 9	16,769 6 6	47,033 12 10	1,254 5 1	.....	1,39,732 12 5
B.—ESTABLISHMENTS.										
I.—Salaries—										
a. Conservators ...	22,875 11 1	.....	.....	.....	.....	.....	.....	.....	.....	22,875 11 1
b. Superior Officers { Voted.	.....	1,600 0 0	5,765 2 7	6,385 2 7	10,389 3 8	7,091 15 0	9,017 4 2	.....	.....	40,248 12 0
b. Superior Officers { Non-Voted	.....	19,402 7 7	.....	2,100 0 0	13,101 10 8	... ...	.....	... ...	.....	34,604 2 3
c. Subordinate Forest and Depôt Establishments .	... ..	50,181 15 0	37,330 7 6	35,054 10 9	68,290 13 3	42,646 8 7	87,973 15 7	3,433 11 5	.....	3,25,512 2 1
d. Office Establishments	11,699 3 4	12,709 2 8	8,815 2 8	9,163 0 6	12,507 12 9	14,321 7 1	14,325 1 6	2,064 4 3	.....	85,605 2 9
e. Deputation and Special Allowances	5,722 13 8	6,103 3 2	4,761 2 1	9,122 3 3	1,696 7 10	2,242 9 5	940 13 0	261 15 9	.....	30,854 2 2
f Exchange Compensation Allowance.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total, B-I ...	40,297 12 1	89,999 12 5	56,671 14 10	61,825 1 1	1,06,586 0 2	66,302 8 1	1,12,257 2 3	5,759 13 5	.....	5,39,706 0 4
II.—Travelling Allowances—										
a. Conservators ...	4,255 1 5	.....	.....	.....	.....	.....	.....	.....	.....	4,255 1 5
b. Superior Officers...	.....	4,765 3 4	2,739 5 4	2,582 6 9	5,163 13 8	2,329 0 0	2,797 6 9	.....	.....	20,377 3 10
c. Subordinate Forest and Depôt Establishments.	.....	5,188 15 9	4,594 13 7	6,100 12 4	7,830 10 6	5,744 7 4	7,005 6 1	1,482 13 10	.....	37,977 15 5
d. Office Establishments	1,758 11 4	1,166 11 7	1,030 10 0	1,174 11 8	1,192 1 4	1,024 12 10	1,220 11 7	295 9 0	.....	8,843 15 4
e. Forest School (Dehra Dun) ...	174 3 2	.....	.....	.....	.....	.....	37 1 7	.....	.....	211 4 9
f. Plague Allowance .	.....	... ...	.....	30 0 0	.....	.....	.....	.....	.....	30 0 0
Total, B-II ...	6,187 15 11	11,120 14 8	8,364 12 11	9,887 14 9	14,216 9 6	9,098 4 2	11,060 10 0	1,778 6 10	.....	71,695 8 9
III.—Contingencies—										
a. Stationery ...	54 10 6	296 2 1	180 13 5	234 7 2	416 0 3	292 5 4	398 7 5	6 10 0	.....	1,879 8 2
b. Carriage of Tents and Records ...	584 14 0	382 14 0	319 9 0	472 9 4	342 12 9	409 7 0	459 13 2	151 8 0	.....	3,105 7 3
c. Rents, rates and taxes	.....	57 0 0	73 11 6	140 6 6	171 1 0	641 14 0	.....	.....	.....	1,084 1 0
d. Pay of Police guards	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
e. Official postage...	856 6 9	1,251 5 3	1,400 6 9	999 7 3	1,899 12 6	1,399 4 0	1,536 7 6	80 3 6	.....	9,423 5 6
f. Sundries	718 1 2	412 1 0	722 6 6	568 14 11	587 0 9	309 14 9	297 7 9	126 5 6	.....	3,732 4 4
Total, B-III ...	2,214 0 5	2,429 6 4	2,696 15 2	2,415 13 2	3,416 11 3	3,043 13 1	2,643 3 10	364 11 0	.....	19,224 10 3
TOTAL, B. ESTABLISHMENTS	48,679 12 5	1,03,550 1 5	67,733 10 11	74,128 13 0	1,24,219 4 11	78,444 9 4	1,25,961 0 1	7,902 15 3	.....	6,30,620 3 4
GRAND TOTAL OF EXPENDITURE ...	49,124 2 5	1,23,876 4 2	86,874 4 6	94,268 12 11	1,38,843 6 8	95,213 15 10	1,72,994 12 11	9,157 4 4	.....	7,70,352 15 9
Surplus or Deficit ...	48,274 10 4	+28,902 7 10	+93,403 15 3	+20,086 9 1	+18,801 12 3	+4,729 7 11	+89,057 4 3	−9,155 4 4	+9 3 6	+1,97,554 12 11

FORM No. 68.—*Summary of Revenue and Expenditure of the*

Budget Head.	Direction.	Kánara Northern Division.	Kánara Eastern Division.	Kánara Central Division.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
SOUTHERN CIRCLE.				
REVENUE.				
I.—Timber and other Produce removed from the Forests by Government Agency—				
a. Timber	.....	8,52,796 10 9	4,46,088 0 7	1,27,170 13 2
b. Firewood and charcoal	.....	1,064 0 8	140 8 0	10,031 8 6
c. Bamboos	.....	4 4 0	318 0 0	.....
d. Sandalwood	.....	.....	1,568 2 3	107 15 8
e. Grass and other minor produce	.....	37 8 0	.....	.....
Total, I	.....	8,53,902 7 5	4,48,114 10 10	1,37,310 5 4
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers—				
a. Timber	.....	2,48,647 3 0	21,949 12 0	3,438 10 8
b. Firewood and charcoal	.....	25 8 0	210 6 0	8,439 14 8
c. Bamboos	.....	23,880 15 5	11,133 2 6	496 2 0
d. Grazing and fodder grass	.....	3,929 8 0	4,792 8 0	5,133 11 0
e. Other minor produce	.....	930 0 0	2,009 1 7	1,014 12 10
f. Other items	.....	.....	.....	.....
g. Commutation fees	.....	.....	.....	.....
Total, II	.....	2,77,413 2 5	40,094 14 1	18,523 3 2
III.—Drift and Waif Wood and Confiscated Forest Produce	.....	69 7 1	.....	1 9 0
Total, III	.....	69 7 1	.....	1 9 0
IV.—Revenue from Forests not managed by Government—				
a. Duty on foreign timber and other forest produce	.....	.....	.....	.....
b. Revenue from shared and private Forests	.....	.....	.....	.....
Total, IV	.....	.....	.....	.....
V.—Miscellaneous—				
a. Fines and forfeitures	.....	350 0 0	852 13 0	894 11 0
b. Refunds	.....	44 6 4	100 6 11	283 1 7
c. Other sources	2,490 2 1	1,847 3 6	2,715 7 9	1,307 0 9
Total, V	2,490 2 1	2,241 9 10	3,668 11 8	2,549 13 4
Grand Total, Revenue	2,490 2 1	11,33,626 10 9	4,91,878 4 7	1,58,384 14 10
Deduct – Refunds	*—35 0 0*	*—795 4 2*	*—132 14 8*	*—473 10 8*
Total Revenue	2,455 2 1	11,32,831 6 7	4,91,745 5 11	1,57,911 4 2
EXPENDITURE.				
A.—CONSERVANCY AND WORKS.				
I.—Timber and other Produce removed from the Forests by Government Agency—				
a. Timber	.....	1,97,841 8 8	2,49,970 11 9	89,011 6 10
b. Firewood and charcoal	.....	3,510 9 1	318 0 0	14,120 0 0
c. Bamboos	.....	.....	.....	414 9 5
d. Sandalwood	.....	.....	729 4 6	829 8
e. Grass and other minor produce	.....	279 9 0	.....	.....
f. Bread Stallment	.....	399 1 0	.....	.....
Total, A-I	.....	2,02,030 11 9	2,51,018 0 3	1,04,375 2 11
II.—Timber and other Produce removed from the Forests by Consumers or Purchasers	.....	295 3 5	911 9 0	557 13 11
Total, A-II	.....	295 3 5	911 9 0	557 13 11
III.—Drift and Waif Wood and Confiscated Forest Produce	.....	494 13 0	.....	5 6 0
Total, A-III	.....	494 13 0	.....	5 6 0
IV.—Revenue from Forests not managed by Government—				
a. Duty on foreign timber and other forest produce	.....	2 10 0	.....	.....
b. Revenue from shared and private Forests	.....	.....	.....	.....
Total, A-IV	.....	2 10 0	.....	.....

different Divisions for the forest year 1921-1922.

Kánara Southern Division.	Kánara Western Division.	Belgaum Division.	Belgaum Famine Fodder Division.	Dhárwár, Bijápur Division.	School Division.	Total for the forest year 1921-22.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
58,215 0 7	1,53,973 12 10	48,396 2 9	.....	824 8 6	41,354 9 2	17,28,819 10 4
17,002 5 3	69,101 14 9	3,70,033 12 4	.....	398 0 0	4,195 13 0	4,71,967 14 6
.....	.....	.....	.....	4 1 7	.....	326 5 7
81 13 10	.....	13,711 12 3	.....	101 9 2	2,241 1 7	17,812 6 9
.....	.....	.....	13,221 15 6	.....	.....	13,259 7 6
75,299 3 8	2,23,075 11 7	4,32,141 11 4	13,221 15 6	1,328 3 3	47,791 7 9	22,32,185 12 8
4,842 11 0	5,637 5 8	38,714 15 5	.....	2,594 9 0	15,261 0 0	3,41,086 2 9
9,790 11 0	29,983 8 2	63,004 1 9	.....	51,407 3 0	18,859 14 0	1,81,721 2 7
258 12 10	5,500 4 3	10,540 8 10	.....	1,151 7 6	2,042 5 6	55,003 10 10
8,948 11 0	4,214 3 3	11,981 13 0	.....	23,764 4 0	1,025 2 0	63,769 12 3
4,118 10 5	3,100 6 8	19,129 1 6	.....	13,350 14 6	866 12 0	44,579 11 6
.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....
27,959 8 3	48,435 12 0	1,43,370 9 6	.....	92,268 6 0	38,055 1 6	6,86,120 11
57 4 0	50 8 0	63 9 3	.....	0 8 0	.....	222 13 4
37 4 0	50 8 0	63 9 3	.....	0 8 0	.....	222 13 4
.....	.....	.....	.....	5 0 0	.....	.....
.....	.....	.....	.....	.....	.....	5 0 0
.....	.....	.....	.....	5 0 0	.....	5 0 0
498 3 6	1,289 0 7	1,964 9 11	.....	318 1 0	122 5 0	6,289 12 0
61 9 1	6,876 14 3	.....	.....	38 3 0	0 12 0	7,410 5 2
2,997 12 1	4,981 8 4	7,679 10 8	.....	7,057 7 8	317 12 2	31,454 1 0
3,557 8 8	13,147 7 2	9,644 4 7	.....	7,413 11 8	440 13 2	45,154 2 2
1,06,353 8 7	2,84,709 6 9	5,85,220 1 8	13,221 15 6	1,01,015 12 11	86,287 6 5	29,63,688 4 1
—53 3 4	*—337 15 10*	*—497 14 0*	.....	*—22 12 0*	*—74 0 0*	*—2,412 10 8*
1,06,600 5 3	2,84,371 6 11	5,84,732 3 8	13,221 15 6	1,00,993 0 11	86,213 6 5	29,61,275 9 5
39,816 1 10	61,446 14 5	17,912 5 8	.....	.....	22,191 8 11	6,98,190 10 1
18,190 11 8	51,308 10 10	2,32,380 8 2	.....	80 7 9	3,202 14 9	3,23,111 14 3
.....	.....	.....	.....	.....	.....	414 9 5
266 15 0	.....	4,380 10 11	...	1,497 2 0	256 3 3	7,959 6 4
.....	10 4 0	.....	5,078 5 10	.....	155 11 6	5,523 14 4
.....	.....	11,054 13 10	.....	.....	.....	11,453 14 10
79,273 12 6	1,12,765 13 3	2,65,728 6 7	5,078 5 10	1,577 9 9	25,806 6 5	10,46,654 5 3
1,255 10 2	1,237 11 0	3,432 5 7	.....	1,105 6 9	113 2 9	8,908 14 7
1,255 10 2	1,237 11 0	3,432 5 7	.....	1,105 6 9	113 2 9	8,908 14 7
7 11 0	19 5 0	11 3 0	.....	7 8 0	.....	545 14 0
7 11 0	19 5 0	11 3 0	.....	7 8 0	.....	545 14 0
.....	.....	.....	.....	.....	.....	2 10 0
.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	2 10 9

FORM NO. 68.—*Summary of Revenue and Expenditure of the different*

Budget Head.	Direction.	Kánara, Northern Division.	Kánara, Estern Division.	Kánara, Central Division.
EXPENDITURE—*contd.*	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
A.—CONSERVANCY AND WORKS—*contd.*				
V.—Rent of leased Forests and Payments to Share-holders in Forests managed by Government	.....	.....	.....	.....
Total, A-V ...	.....	.....	.....	.....
VI.—Live-stock Stores, Tools and Plant—				
a. Purchase of cattle	.....	1,322 0 0	622 0 0	.....
b. Feed and keep of cattle	32 5 9	4,032 10 9	1,997 14 4	.....
c. Purchase of stores, tools and plant ...	2,761 0 3	(*a*)8,515 10 10	2,016 0 0	497 5 0
Total, A-VI ...	2,793 6 0	(*b*)13,870 5 7	4,635 14 4	497 5 0
VII.—Communications and Buildings—				
a. Roads and bridges	.....	91,910 9 3	36,338 4 2	5,224 10 1
b. Buildings	59 9 0	(*c*)24,314 5 7	3,900 4 7	2,998 3 5
c. Other works	14 0 0	(*d*)10,458 6 1	1,502 3 3	445 0 5
Total, A-VII ...	73 9 0	(*e*)1,26,683 4 11	41,740 12 0	8,667 13 11
VIII.—Organization, Improvement and Extension of Forest—				
a. Demarkation	.....	.....	.....	4 6 0
b. Cost of Forest Settlements and Compensation for land and rights	.....	.....	.....	1 14 2
c. Surveys	.....	.....	.....	.....
d. Working-plans	.....	.....	.....	.....
e. Sowing and planting	22 12 0	18,946 11 2	13,329 14 8	4,475 10 10
f. Protection from fire	.....	3,175 13 8	2,381 9 9	924 6 5
g. Other works	.....	.....	47 9 0	.....
Total, A-VIII ...	22 12 0	22,122 8 10	15,759 1 5	5,406 5 5
IX.—Miscellaneous—				
a. Law charges	.....	.....	.....	.....
b. Grain compensation	6 0 0	3,266 13 1	1,341 7 11	936 12 9
c. Other charges	285 5 4	3,999 11 8	2,437 2 3	2,144 3 6
Total, A-IX ...	291 5 4	7,266 8 9	3,778 10 2	3,081 0 3
TOTAL A.—CONSERVANCY AND WORKS ...	3,181 0 4	3,72,766 2 3	3,17,843 15 2	1,22,593 15 5
B.—ESTABLISHMENTS.				
I.—Salaries—				
a. Conservators Non voted...	21,919 5 8	.....	.....	.....
b. Superior Officers { Non voted...	.....	31,725 7 2	16,533 6 2	16,895 0 0
{ Voted ...	.....	30,828 7 2	4,328 4 6	2,209 0 6
c. Subordinate Forest and Depôt Establishments	1,965 0 0	52,960 6 2	44,116 4 3	34,025 4 2
d. Office Establishments	12,200 12 3	12,477 6 11	10,866 0 9	8,628 3 2
e. Deputation and Special Allowances ...	677 11 2	16,194 0 9	13,932 0 9	3,006 14 3
f. Grain Compensation Allowance—	.....	435 8 11	9 0 0	.....
Total, B-I ...	36,762 13 1	1,44,621 5 1	89,785 0 5	64,744 6 1
II.—Travelling Allowances—				
a. Conservators	3,607 12 2	.....	.....	.....
b. Superior Officers	161 0 0	13,122 3 10	6,977 2 0	3,923 2 9
c. Subordinate Forest and Depôt Establishments	290 7 4	9,385 15 0	6,296 7 9	4,726 11 1
d. Office Establishments	1,686 12 11	1,651 12 11	1,289 2 2	1,842 14 9
e. Forest School (Dehra dun)	.....	150 0 0	150 0 0	428 3 7
f. Plange Allowances	.....	.....	50 0 0	.....
Total, B-II ...	5,746 0 5	24,309 15 9	14,762 11 11	10,921 0 2
III.—Contingencies—				
a. Stationery	46 4 3	271 4 9	261 5 2	255 9 3
b. Carriage of Tents and Records... ...	473 5 0	76 7 8	161 6 6	742 8 0
c. Tents, Rates and Taxes	.....	18 6 0	.....	.....
d. Pay of Police-guards	.....	.....	.....	.....
e. Official Postage	980 12 9	975 13 3	1,001 0 0	1,348 12 0
f. Sundries	6,479 14 2	242 12 7	173 3 9	342 13 1
Total, B-III ...	7,980 4 2	1,584 12 3	1,596 15 5	2,689 10 4
TOTAL, B—ESTABLISHMENTS ...	50,489 1 8	1,70,516 1 1	1,06,144 11 9	78,355 0 7
GRAND TOTAL OF EXPENDITURE ...	53,670 2 0	5,43,282 3 4	4,23,988 10 11	2,00,946 0 0
SURPLUS OR DEFICIT ...	—*51,214 15 11*	+*5,89,549 3 3*	+67,756 11 0	—*43,034 11 10*

Divisions for the forest year 1921-1922.

Kánara, Southern Division.	Kánara, Western Division.	Belgaum Division.	Belgaum Famine Fodder Division.	Dhárwár and Bijápur Division.	School Division.	Total for the forest year 1921-22.
Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
.....	.....	.....	.....	50 0 0	.....	50 0 0
.....	.....	.....	.....	50 0 0	.....	50 0 0
.....	247 0 0	.....	.....	.....	.....	2,191 0 0
.....	612 3 6	.....	.....	.....	.....	6,675 2 4
66 3 0	541 7 0	605 13 0	.....	195 8 0	497 12 0	15,696 11 1
66 3 0	1,400 10 6	605 13 0	.....	195 8 0	497 12 0	24,562 13 5
5,678 10 2	25,974 11 10	14,091 3 2	.....	168 14 3	4,989 3 4	1,84,356 2 3
6,445 5 4	1,803 9 6	4,648 4 1	.....	9,376 4 0	2,886 8 7	56,432 6 1
50 8 0	96 8 0	212 3 0	.....	370 5 5	30 0 0	13,179 2 1
12,174 7 6	27,874 13 4	18,951 10 3	.....	9,915 7 8	7,885 11 11	2,53,967 10 6
.....	446 5 11	661 9 1	.....	164 7 0	50 0 0	1,326 12 0
795 9 3	167 0 2	.....	.....	.....	.....	964 7 7
.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....
5,782 7 6	9,351 13 8	5,270 9 9	.....	2,105 7 8	8,785 5 3	68,070 12 6
335 8 2	3,216 4 1	2,878 4 1	.....	767 15 0	408 0 0	14,087 13 2
.....	.....	.....	.....	78 2 5	.....	125 11 5
6,913 8 11	13,181 7 10	8,810 6 11	.....	3,116 0 1	9,243 5 3	84,575 8 8
.....	.....	20 12 0	.....	.....	.....	20 12 0
313 7 6	681 8 3	50 6 11	.....	119 7 1	201 3 7	6,917 3 1
2,263 10 0	3,304 5 10	6,269 3 3	.....	2,279 1 0	1,037 8 0	24,020 2 10
2,577 1 6	3,985 14 1	6,340 6 2	.....	2,398 8 1	1,238 11 7	30,958 1 11
1,01,269 6 7	1,60,465 11 0	3,03,880 3 6	5,078 5 10	18,366 0 4	44,785 1 11	14,50,225 14 4
.....	.....	.....	.....	.....	.....	21,919 5 8
.....	.....	17,775 12 2	.....	6,000 0 0	.....	88,909 9 6
4,323 13 11	12,153 11 2	8,921 9 10	.....	6,317 15 4	.....	69,082 14 5
.....	.....	.....	.....	.....	.....	.....
30,384 4 5	38,421 8 9	60,979 5 5	.....	43,581 1 11	11,463 12 11	3,17,907 0 0
9,994 0 11	13,072 7 11	11,922 5 1	.....	9,091 13 9	3,375 14 8	91,629 1 5
1,041 11 7	7,244 14 4	2,218 6 1	.....	557 14 6	812 4 5	45,685 13 10
9 0 0	.....	.....	.....	267 12 0	.....	721 4 11
45,762 14 10	70,892 10 2	1,01,817 6 7	.....	65,816 9 6	15,652 0 0	6,35,855 1 9
.....	.....	.....	.....	.....	.....	3,607 12 2
2,576 9 0	2,748 0 0	5,337 8 2	.....	4,495 12 2	.....	39,341 5 11
4,148 13 3	5,310 8 9	7,487 4 5	.....	4,448 15 4	1,749 2 10	43,844 5 9
783 1 0	833 9 10	1,683 6 1	.....	1,215 8 6	424 1 2	11,410 5 4
.....	407 14 5	.....	.....	30 0 0	35 10 0	1,201 12 0
.....	.....	.....	.....	.....	.....	50 0 0
7,508 7 3	9,300 1 0	14,508 2 8	.....	10,190 4 0	2,203 14 0	99,455 9 2
268 3 7	204 11 10	312 10 8	.....	303 12 9	97 5 9	2,021 4 0
219 2 0	409 4 8	252 7 8	.....	423 13 10	27 13 0	2,786 4 4
116 4 3	.....	6 0 0	.....	43 8 2	.....	184 2 5
.....	.....	.....	.....	.....	.....	.....
1,091 6 9	739 9 0	1,440 15 0	.....	1,240 1 9	230 0 0	8,958 6 6
174 2 1	189 6 1	583 10 8	.....	583 3 4	102 13 0	8,871 14 9
1,779 2 8	1,542 15 7	2,595 12 0	.....	2,594 7 10	457 15 9	22,522 0 0
55,050 8 9	81,735 10 9	1,18,921 5 3	.....	78,601 5 4	18,318 13 9	7,58,132 10 11
1,56,318 15 4	2,42,201 5 9	4,22,801 8 9	5,078 5 10	96,967 5 8	63,103 15 8	22,08,358 9 3
—4,518 10 1	*+42,170 1 2*	*+1,61,930 10 11*	*+3,143 9 8*	*+ 4,025 11 3*	*+23,109 6 9*	*+7,52,917 0 2*

FORM No. 68.—*Summary of Revenue and Expenditure of the different divisions for the forest year 1921-1922*—contd.

Budget Head.	Direction.	Kárachi Division.	Hyderabad Division.	Lárkána Division.	Shikarpur Division.	Sukkur Division.	Thar and Párkar Division.	Total for the forest year 1921-22.
SIND CIRCLE.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
REVENUE.								
I.—Timber and other produce removed from the forests by Government Agency—								
a. Timber	.....	.....	715 0 0	28 8 0	562 0 0	2,326 6 6	.....	3,631 14 6
b. Firewood and charcoal	.....	1,07,983 7 0	37,833 9 3	16,071 4 0	3,929 0 0	28,801 1 9	.....	1,94,618 6 0
c. Bamboos	.....	.....	.....	.....	.....	.....	.....	.....
d. Sandalwood	.....	.....	.....	.....	.....	.....	.....	.....
e. Grass and other minor produce	10 8 0	651 15 0	1,240 9 3	.....	.....	40 6 9	.....	1,943 7 0
Total, I ..	10 8 0	1,08,635 6 0	39,789 2 7	16,099 12 0	4,491 0 0	31,167 15 0	.....	2,00,193 11 6
II.—Timber and other produce removed from the forests by consumers or purchasers—								
a. Timber...	.....	15,593 15 4	33,503 1 11	7,545 13 8	11,190 5 2	30,123 3 11	53 3 0	58,014 11 0
b. Firewood and charcoal.	.....	55,468 6 0	86,758 5 6	40,011 11 7	68,621 12 0	1,25,102 10 1	465 2 6	3,76,427 15 8
c. Bamboos	.....	.....	.....	.....	.....	.....	.....	.....
d. Grazing and fodder grass	.....	5,083 1 6	5,529 14 0	5,204 13 2	3,369 8 6	5,529 15 10	139 0 0	24,856 5 0
e. Other minor produce .	.....	14,035 2 1	32,633 5 4	3,486 0 0	2,080 12 8	2,551 5 1	1,054 1 0	55,790 10 2
f. Other items ...	.....	.....	.....	.....	.....	.....	.....	.....
g. Commutation fees ...	.....	.....	.....	.....	.....	.....	.....	.....
Total, II ...	.....	90,180 8 11	1,58,424 10 9	56,248 6 5	85,212 6 4	1,63,312 2 11	1,711 6 6	5,55,089 9 10
III.—Drift and waif wood and confiscated forest produce	.....	48 0 0	154 0 0	37 8 0	51 15 3	60 7 6	.....	351 14 9
Total, III ...	.....	48 0 0	154 0 0	37 8 0	51 15 3	60 7 6	.....	351 14 9
IV.—Revenue from forests not managed by Government—								
a. Duty on foreign timber and other forest produce	..	.....	.....	.....	.....	.....	.....	.....
b. Revenue from shared and private forests ...	.....	.....	.....	.....	.....	.....	.....	.....
Total, IV ...	.....	.....	.....	.....	.....	.....	.....	.....
V.—Miscellaneous—								
a. Fines and forfeitures .	.....	570 5 4	1,162 8 0	1,556 12 0	2,205 1 0	1,918 0 0	.....	7,412 10 4
b. Refunds	.....	15 2 6	182 6 4	69 12 1	70 1 5	35 15 4	.....	373 5 8
c. Other sources	13 12 0	14,902 10 2	9,753 12 8	8,417 5 11	7,194 6 1	8,666 5 11	109 1 0	49,059 5 9
Total, V ...	13 12 9	15,489 2 0	11,098 11 0	10,043 14 0	9,469 8 6	10,620 5 3	109 1 0	56,843 5 9
Grand Total, Revenue ...	24 4 0	2,14,352 0 11	2,09,466 8 3	82,429 8 5	99,224 14 1	2,05,160 14 8	1,820 7 6	8,12,478 9 10
Deduct Fund ...	.....	803 5 0	117 9 0	0 2 3	.....	14 0 0	.....	935 0 3
Net Total Revenue ...	24 4 0	2,13,548 11 11	2,09,348 15 3	82,429 6 2	99,224 14 1	2,05,146 14 8	1,820 7 6	8,11,543 9 7
EXPENDITURE.								
A.—CONSERVANCY AND WORKS.								
I.—Timber and other produce removed from the forests by Government Agency—								
a. Timber	.....	.....	.....	.....	528 10 0	853 8 8	.....	1,382 2 8
b. Firewood and charcoal	.....	59,027 14 3	17,136 7 8	10,048 9 3	1,479 7 2	12,689 15 2	.....	1,00,382 5 6
c. Bamboos	.....	.....	.....	.....	.....	.....	.....	.....
d. Sandalwood	.....	.....	.....	.....	.....	.....	.....	.....
e. Grass and other minor produce	.....	.....	38 8 10	.....	.....	.....	.....	38 8 10
Total, A-I ...	.....	59,027 14 3	17,175 0 6	10,048 9 3	2,008 1 2	13,543 7 10	.....	1,01,803 1 9
II.—Timber and other produce removed from the forests by consumers or purchasers	.....	217 7 0	47 0 0	11 0 0	4 8 0	48 4 0	.....	328 3 0
Total, A-II ...	.....	217 7 0	47 0 0	11 0 0	4 8 0	48 4 0	.....	328 3 0
III.—Drift and waif wood and confiscated forest produce	.....	.....	.....	.....	.....	.....	.....	.....
Total, A-III ...	.....	.....	.....	.....	.....	.....	.....	.....
IV.—Revenue from forests not managed by Government—								
a. Duty on foreign timber and other forest produce	.....	.....	.....	.....	.....	.....	.....	.....
b. Revenue from shared and private forests ...	.....	.....	.....	.....	.....	.....	.....	.....
Total, A-IV ...	.....	.....	.....	.....	.....	.....	.....	.....

FORM No. 68.—*Summary of Revenue and Expenditure of the different divisions for the forest year 1921-1922*—concld.

Budget Head.	Direction.	Karáchi Division.	Hyderabad Division.	Lárkána Division.	Shikarpur Division.	Sukkur Division.	Thar and Párkar Division.	Total for the forest year 1921-22.
EXPENDITURE—*concld.*	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
A.—CONSERVANCY AND WORKS—*concld.*								
V.—Rent of leased forests and payments to shareholders in forests managed by Government	.....	.....	.....	.....	.....	.....	.....	.....
Total, A-V ...	.....	.....	.....	.....	.....	.....	.....	.....
VI.—Live Stock, Stores Tools and Plant—								
a. Purchase of cattle ...	.....	.....	.....	.....	.....	.....	.....	.....
b. Feed and keep of cattle	.....	.....	.....	.....	.....	202 10 7	.....	202 10
c. Purchase of stores, tools and plant ...	328 14 6	300 8 0	146 0 6	131 11 11	140 0 0	219 3 0	.....	1,296 5 11
Total, A-VI ...	328 14 6	300 8 0	146 0 6	131 11 11	140 0 0	451 13 7	.....	1,499 0 6
VII.—Communications and Buildings—								
a. Roads and bridges ...	.....	.....	.....	.....	.....	.....	.....	.....
b. Buildings	.....	1,237 3 11	1,628 2 6	370 0 8	208 0 0	8,846 8 0	.....	12,289 15 1
c. Other works	.....	2,858 0 8	.....	1,400 4 2	323 4 0	415 15 5	.....	4,997 8 3
Total, A-VII ...	.....	4,095 4 7	1,628 2 6	1,770 4 10	531 4 0	9,262 7 5	.....	17,287 7 4
VIII.—Organization, Improvement and Extension of forest—								
a. Demarcation	.....	.....	.....	.....	.....	.....	.....	.....
b. Cost of forest settlements and compensation for land and rights	.....	.....	.....	.....	.....	.....	.....	.....
c. Surveys	.....	.....	.....	.....	.....	.....	.....	.....
d. Working Plans ...	1 2 0	77 10 0	52 0 0	112 11 2	513 5 11	604 4 3	.....	1,361 1 4
e. Sowing and planting ...	.....	1,770 13 0	2,165 15 3	303 9 3	2,088 6 11	2,629 8 0	.....	8,967 4 5
f. Protection from fire...	.....	196 4 8	.....	700 0 0	1,039 13 11	1,706 1 0	.....	3,642 3 7
g. Other works	.....	.....	.....	.....	.....	.....	.....	.....
Total, A-VIII ...	1 2 0	2,053 11 8	2,217 15 3	1,116 4 5	3,641 10 9	4,339 13 3	.....	13,970 9 4
IX.—Miscellaneous—								
a. Law charges	.....	.....	.....	.....	.....	.....	.....	.....
b. Grain compensation...	.....	.....	26 2 0	.....	6 0 0	111 6 2	22 8 0	166 0 2
Other charges (clothing).	8 2 0	2,513 8 1	2,079 15 6	1,339 15 0	1,482 7 6	3,029 12 0	.....	10,452 12 1
Total, A-IX ...	8 2 0	2,512 8 1	2,106 11 6	1,239 15 0	1,488 7 6	3,141 2 2	22 8 0	10,618 12 3
TOTAL, A.—CONSERVANCY AND WORKS	338 2 6	68,207 5 7	23,329 4 3	14,417 13 5	7,813 15 5	31,387 0 3	22 8 0	1,45,507 1 5
B.—ESTABLISHMENTS.								
I.—Salaries.								
a. Conservators non-vot.	20,820 15 6	.....	.....	.....	.....	.....	.....	20,820 15 6
b. Superior Officers vot.	.....	3,364 0 10	10,095 10 4	7,219 1 0	5,885 11 5	11,152 12 9	.....	37,707 4 4
c. Subordinate Forest and Depôt Establishments	.....	26,623 0 9	22,854 6 7	19,032 2 7	19,089 15 7	28,036 12 11	2,414 3 4	1,18,100 9 9
d. Office Establishments.	8,549 7 10	8,652 7 7	8,837 7 2	7,201 1 8	5,666 2 11	9,229 1 5	.....	48,135 12 7
e. Deputation and Special Allowances	2,311 11 11	653 14 5	337 0 6	622 0 9	389 6 5	887 15 4	.....	5,201 1 4
f. Exchange compensation Allowance ...	.....	.....	.....	.....	.....	.....	.....	.....
Total, B-I ...	31,682 3 3	39,293 7 7	42,114 8 7	34,124 6 0	31,031 4 4	49,306 10 5	2,414 3 4	2,29,965 11 6
II.—Travelling Allowances—								
a. Conservators	.....	.....	.....	.....	.....	.....	.....	.....
b. Superior Officers ...	4,276 10 4	1,618 10 8	2,813 13 10	3,456 5 6	2,323 5 4	2,613 7 0	.....	17,132 4 8
c. Subordinate Forest and Depôt Establishments.	.....	3,491 13 10	2,553 11 5	2,761 15 2	2,656 1 0	2,859 14 6	.....	13,730 7 11
d. Office Establishments.	1,379 1 2	733 2 5	1,463 1 8	940 12 4	788 2 6	1,077 2 10	.....	6,381 6 11
e. Forest School ...	.....	75 0 0	.....	.....	75 0 0	.....	.....	150 0 0
Total, B-II ...	5,655 11 6	5,925 10 11	6,860 10 11	7,159 1 0	5,242 8 10	6,550 8 4	.....	37,394 3 6
III.—Contingencies—								
a. Stationery	13 1 6	155 7 6	175 9 11	148 5 0	89 3 0	195 12 6	.....	777 7 5
b. Carriage of tents and records	680 0 10	677 2 6	303 8 0	295 9 9	245 0 0	275 11 0	.....	2,477 0 1
c. Rents, Rates and Taxes	3,122 15 1	481 8 0	689 0 0	711 6 0	581 4 0	114 0 0	.....	5,700 1 1
d. Pay of Police guards.	.....	.....	.....	.....	.....	.....	.....	.....
e. Official postage ...	635 4 9	697 3 0	733 0 3	682 10 0	570 8 6	580 14 9	.....	3,899 9 3
f. Sundries	868 13 2	633 1 6	485 11 1	606 2 11	643 3 1	723 12 8	.....	3,960 12 5
Total, B-III ...	5,320 3 4	2,664 6 6	2,386 13 3	2,444 1 8	2,129 2 7	1,889 2 11	.....	16,814 14 3
TOTAL, B.—ESTABLISHMENTS	42,658 2 1	47,883 9 0	51,362 0 9	43,727 8 8	38,402 15 9	57,747 5 8	2,414 4	2,84,174 13 3
GRAND TOTAL OF EXPENDITURE...	42,996 4 7	1,16,069 14 7	74,682 5 0	58,145 6 1	46,216 15 2	89,134 5 11	2,436 11 4	4,29,681 14 8
SURPLUS OR DEFICIT ...	—42,972 0 7	+9,7478 13 4	+1,31,666 10 3	+24,284 0 1	+53,007 14 11	+1,66,012 8 9	—616 3 10	+3,81,861 10 11

FORM No. 68.

UTILIZATION CIRCLE.

Consalidated summary of Revenue and Expenditure for the forest year 1921-22.

	Rs.	a.	p.
REVENUE.			
V.—Miscellaneous—			
b. Refunds	4	10	8
Total, V ...	4	10	8
Grand Total, Revenue ...	4	10	8
EXPENDITURE.			
A.—Conservancy and Works—			
I.—Timber and other produce removed from the forests by Government Agency:—			
a. Timber	1,792	6	7
Total, A—I ...	1,792	6	7
VI.—Live stock, stores, tools and plant—			
c. Purchase of stores, tools and plant	3,055	0	0
Total, A-VI ...	3,055	0	0
IX—Miscellaneous—			
c. Other charges (clothing)	1,095	2	4
Ttal, A-IX ...	1,095	2	4
Total, A—Conservancy and Works ...	5,942	8	11
B.—Establishments—			
I.—Salaries—			
a. Conservators, Non-voted	7,577	7	10
d. Office establishments	1,721	8	9
Total, B-I ...	9,299	0	7
II.—Travelling Allowance—			
a. Conservators	1,617	0	0
d. Office establishments	305	5	2
Total, B-II ...	1,922	5	2
III.—Contingencies—			
b. Carriage of tents and records	9	10	0
e. Official postage	156	15	0
f. Sundries	50	1	6
Total, B-III ...	216	10	6
Total, B—Establishments ...	11,438	0	3
Grand Total of Expenditure ...	17,380	9	2
Surplues or deficit ...	—17,375	14	6

FORM NO. 68.—*Consolidated summary of Revenue and Expenditure of the General Direction, including Famine Fodder and Bombay Forest College for the forest year 1921-22.*

Budget Head.	General Direction.	General Direction, Famine Fodder.	Bombay Forest College.	Total for the forest year 1921-22.
REVENUE.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
I. Timber and other produce removed from the forests by Government Agency—				
a. Timber	227 10 7	.....	.....	227 10 7
e. Grass and other minor produce ..	...	1,83,617 4 9	.....	1,83,617 4 9
Total, I ...	227 10 7	1,83,617 4 9	.....	1,83,844 15 4
V. Miscellaneous—				
b. Refunds	.....	.....	.....	.....
c. Other sources	4 0 0	100 0 0	4,431 7 7	4,535 7 7
Total, V ...	4 0 0	100 0 0	4,431 7 7	4,535 7 7
Deduct Refunds ...	.....	...	600 0 0	600 0 0
Grand Total, Revenue ...	231 10 7	1,83,717 4 9	3,831 7 7	1,87,780 6 11
EXPENDITURE.				
A—Conservancy and Works.				
Timber and other produce removed from the forests by Government Agency—				
e. Grass and other minor produce ..	.....	2,65,521 15 10	.....	2,65,521 15 10
Total, A—I ...	.....	2,65,521 15 10	.....	2,65,521 15 10
VI. Live-stock, stores, tools and plant—				
c. Purchase of stores, tools and plant.	328 12 0	.....	2,507 8 6	2,836 4 6
Total, A—VI ...	328 12 0	.....	2,507 8 6	2,836 4 6
VII. Communications and Buildings—				
b. Buildings	...	.....	1,381 14 6	1,381 14 6
Total, A—VII ...	.....	.....	1,381 14 6	1,381 14 6
VIII. Organization Improvement and Extension of Forest—				
b. Cost of Forest Settlements and Compensation for land and rights ...	...	.....	34,529 11 0	34,529 11 0
Total, A—VIII ...	.....	.....	34,529 11 0	34,529 11 0
IX. Miscellaneous—				
b. Grain Compensation ..	.....	.....	...	...
c. Other charges	669 7 11	.....	571 9 10	1,241 1 9
Total, A—IX ...	669 7 11	.....	571 9 10	1,241 1 9
Total A—Conservancy and Works ...	998 3 11	2,65,521 15 10	38,990 11 10	3,05,510 15 7
B—Establishments.				
I. Salaries—				
a. Chief Conservators non-voted ...	34,686 0 11	.....	.....	34,686 0 11
b. Superior Officers { non-voted ..	1,233 8 3	.....	21,900 0 0	23,133 8 3
{ voted ...	3,720 0 0	.....	2,120 0 0	5,840 0 0
c. Subordinate forest and depot establishments	.....	.....	3,200 0 0	3,200 0 0
d. Office establishments ...	12,214 6 9	.....	3,608 8 2	15,822 14 11
e. Deputation and Special Allowances.	11,722 12 1	.....	17,350 12 2	29,073 8 3
f. Grain Compensation Allowance	.....	.....	6 0 0	6 0 0
Total, B—I ...	63,576 12 0	.....	48,185 4 4	1,11,762 0 4
II. Travelling Allowances—				
a. Conservators	6,418 11 4	.....	.....	6,418 11 4
b. Superior Officers	895 3 4	.....	5,240 2 0	6,135 5 4
c. Subordinate forest and depôt establishments	.....	.....	1,325 1 6	1,325 1 6
d. Office establishments	1,957 15 7	...	474 6 1	2,432 5 8
e. Forest School	1,634 5 11	.....	822 8 6	2,456 14 5
Total, B—II ...	10,906 4 2	.....	7,862 2 1	18,768 6 3
III. Contingencies—				
a. Stationery ...	50 7 6	.....	29 1 3	79 8 9
b. Carriage of tents and records ...	393 8 10	.....	316 12 10	710 5 8
c. Rents, rates and taxes	250 0 0	.....	4,023 11 4	4,273 11 4
e. Official postage	1,131 8 6	.....	130 1 0	1,261 9 6
f. Sundries	1,077 2 5	.....	3,750 14 7	4,828 1 0
Total, B—III	2,902 11 3	.....	8,250 9 0	11,153 4 3
Total, B—Establishments ...	77,385 11 5	.....	64,297 15 5	1,41,683 10 10
Grand Total of Expenditure ...	78,383 15 4	2,65,521 15 10	1,03 288 11 3	4,47,194 10 5
Surplus or deficit ...	-78,152 4 9	-81,804 11 1	-99,457 3 8	2,59,414 3 6

FORM No. 68.—*continued*

ABSTRACT.

Name of Division or Circle.	Revenue.	Expenditure. A.	Expenditure. B.	Total.	Surplus.	Deficits.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1 General Direction including famine Fodder and Forest College.	1,87,780 6 11	3,05,510 15 7	1,41,683 10 10	4,47,194 10 5	.....	2,59,414 3 6
2 Northern Circle ...	25,65,574 8 3	4,75,230 15 7	6,72,302 2 6	11,47,533 2 1	14,18,041 6 2	.....
3 Central do.	9,67,907 12 8	1,39,732 12 5	6,30,620 3 4	7,70,352 15 9	1,97,554 12 11	.....
4 Southern do. ...	29,61,275 9 5	14,50,325 14 4	7,58,132 10 11	22,08,358 9 3	7,52,917 0 2	.....
5 Sind do. ...	8,11,643 9 7	1,45,507 1 5	2,84,174 13 9	4,29,681 14 8	3,81,861 10 11	.....
6 Utilization do. ...	4 10 8	5,942 8 11	11,438 0 3	17,380 9 2	...	17,375 14 6
For the Presidency ...	74,94,086 9 6	25,22,150 4 3	24,96,351 9 1	50,20,501 13 4	27,50,374 14 2	2,76,790 2 0
Not after excluding Famine Fodder.	72,37,138 2 3	22,51,649 14 7	24,08,351 9 1	47,49,901 7 8	27,42,222 1 6	1,94,985 6 11
					Net surplus Rs.	25,47,236 10 7

FORM No. 69.—*Revenue received and Outstandings on account of Revenue for the forest year 1921-1922.*

Division.	Particulars.	Outstandings at commencement of year—1st April 1921.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the Department at end of year—31st March 1922.	Remarks.
	2	3	4	5	6	7	8
NORTHERN CIRCLE.		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Direction ...	.....	.....	1,217 6 11	1,217 6 11	1,217 6 11	.....	
Panch Mahals.	Various sources, Timber and other produce.	39,610 13 7	2,12,431 9 1	2,52,042 6 8	2,12,357 2 8	39,685 4 0	
Surat ...	Do. ...	1,27,523 15 8	2,96,933 11 3	4,24,457 10 11	3,32,950 15 3	91,506 11 8	
North Thána.	Do. ...	21,678 4 0	10,11,473 10 4	10,33,151 14 4	10,29,187 2 4 3,964 12 0	.....	Written off *Vide* G. R. No. 2764. 19-1-22.
West Thána ...	Do. ...	10,053 0 0	4,32,299 1 10	4,42,352 1 10	4,27,871 1 10	14,481 0 0	
East Thána ...	Do. ...	43,062 7 0	3,23,941 6 2	3,67,003 13 2	3,55,042 12 5	11,961 0 9	
West Násik ...	Do. ...	17,413 0 0	1,30,538 8 10	1,47,951 8 10	1,41,561 8 10	6,390 0 0	
East Násik ...	Do. ...	6,065 4 0	59,561 2 0	65,626 6 0	65,386 6 0	240 0 0	
	Total, Northern Circle.	2,65,406 12 3	24,68,396 8 5	27,33,803 4 8	25,65,574 8 3 3,964 12 0	1,64,264 0 5	
CENTRAL CIRCLE.							
Direction ...	Various sources, Timber and other forest produce.	.....	849 8 1	849 8 1	849 8 1	.....	
East Khándesh.	Do. ...	.....	1,52,796 12 0	1,52,796 12 0	1,52,778 12 0	18 0 0	
North Khándesh.	Do. ...	.....	1,14,349 6 0	1,14,349 6 0	1,14,349 6 0	.....	
West Khándesh.	Do. ..	8,213 0 0	1,72,065 3 9	1,80,278 3 9	1,80,278 3 9	.....	
Poona ...	Do. ...	50 0 0	1,58,306 2 11	1,58,356 2 11	1,57,645 2 11	711 0 0	
Kolába ...	Do. ...	5,943 0 0	2,59,465 1 2	2,65,408 1 2	2,62,052 1 2	3,356 0 0	
Sátára ...	Do. ...	187 0 0	99,756 7 9	99,943 7 9	99,943 7 9	.. ...	
Working Plans C. C.	Do.	.....	2 0 0	2 0 0	2 0 0	.....	
	Total, Central Circle ...	14,393 0 0	9,57,590 9 8	9,71,983 9 8	9,67,898 9 8	4,085 0 0	
SOUTHERN CIRCLE.							
Kánara, Northern.	Timber and other produce.	7,17,192 11 0	7,54,495 2 5	14,71,687 13 5	11,32,831 6 7 *6,566 1 1 †5,154 1 8	3,27,136 4 1	*Amount written off under proper authority.
Kánara, Eastern.	Do. ..	3,60,000 0 0	4,82,889 5 11	8,42,889 5 11	4,91,745 5 11	3,51,144 0 0	
Kánara, Central.	Do. ...	52,764 10 6	1,48,307 14 6	2,01,072 9 0	1,57,911 4 2 †294 15 4	42,866 5 6	†Transferred to W. D. Kanara and credited in that Division.
Kánara, Southern.	Do. ...	34,143 1 1	1,30,521 12 5	1,64,664 13 6	1,06,800 5 3	57,864 8 3	
Kánara, Western.	Do. ...	1,18,594 9 9	2,45,204 5 8	3,63,798 15 5	2,84,371 6 11	79,427 8 6	
Belgaum ...	Do. ...	1,42,475 1 5	6,48,095 11 1	7,90,570 12 6	5,97,954 3 2	1,92,616 9 4	
Dhárwár-Bijápur.	Do. ...	270 9 9	1,09,296 7 8	1,09,567 1 5	1,00,993 0 11 *9 5 4	8,564 11 2	
School Division.	Do. ...	33,871 0 0	1,15,706 15 8	1,49,577 15 8	86,213 6 5	*63,364 9 3	*Rs. 551-0-0 of II b. „ 62,813-9-3 of I a.
Direction ...	Various sources ...	.....	2,455 2 1	2,455 2 1	2,455 2 1	...	
	Total, Southern Circle...	14,59,311 11 6	26,36,972 13 5	40,96,284 8 11	29,61,275 9 5 †6,870 5 9 *5,154 1 8	11,22,984 8 1	
SIND CIRCLE.							
Direction ...	Various sources	.....	24 4 0	24 4 0	24 4 0	.....	
Sukkur ...	Timber and other forest produce.	56,363 6 2	2,28,741 11 6	2,85,105 1 8	2,05,146 14 8	79,958 3 0	
Shikarpur ...	Do. ...	25,412 0 0	1,06,207 10 1	1,31,619 10 1	99,224 14 1	32,394 12 0	
Lárkána ...	Do. ...	19,120 8 6	82,680 4 5	1,01,800 12 11	82,429 6 2	19,371 6 9	
Hyderabad ...	Do. ...	83,377 14 0	1,91,885 10 1	2,75,263 8 1	2,09,348 15 3	65,914 8 10	
Karachi ...	Do. ..	38,720 14 1	2,00,142 5 10	2,38,863 3 11	2,13,548 11 11	25,314 8 0	
Thar and Párkar.	Do. ...	.....	1,820 7 6	1,820 7 6	1,820 7 6	.....	
	Total, Sind Circle ...	2,22,994 10 9	8,11,502 5 5	10,34,497 0 2	8,11,543 9 7	2,22,953 6 7	
	GRAND TOTAL, PRESIDENCY.	19,62,106 2 6	63,74,462 4 11	88,36,568 7 5	73,22,281 8 4	15,14,286 15 1	

FORM No. 70.—*Outstandings and Liabilities on account of Contractors and Disbursers for the year 1921-1922*

Division.	Department Debtor.			Department Creditor.			Balance due		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payment made during year.	At close of year.	To Department (outstandings).	By Department (Liabilities).	
1	2	3	4	5	6	7	8	9	10
General Direction (including Bombay Forest College and Controller, Famine Fodder.)	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Contractors.									
General Direction ...	...	.....	.....	.....	1,45,000 0 0	1,45,000 0 0	1,45,000 0 0	...	
Controller of Famine Fodder.	...	1,70,250 0 0	1,70,250 0 0	.....	1,70,250 0 0	1,70,250 0 0	...	...	
Total, Contractors ...	...	1,70,250 0 0	1,70,250 0 0	.....	3,15,250 0 0	3,15,250 0 0	1,45,000 0 0	...	
Disbursers.									
Controller of Famine Fodder.	...	325 11 8	325 11 8	90 14 5	.....	90 14 5	.....	234 13 3	
Bombay Forest College	*937 14 4	5,580 9 8	6,518 8 0	.....	7,834 13 10	7,834 13 10	1,316 5 10	...	
Total, Disbursers ...	937 14 4	5,906 5 4	6,844 3 8	90 14 5	7,834 13 10	7,925 12 3	1,316 5 10	234 13 3	
TOTAL GENERAL DIRECTION, ETC.	937 14 4	1,76,156 5 4	1,77,094 3 8	90 14 5	3,23,084 13 10	3,23,175 12 3	1,46,316 5 10	234 13 3	
NORTHERN CIRCLE.									
Contractors.									
Direction N. C. ...	...	3,927 0 0	3,927 0 0	225 0 0	3,702 0 0	3,927 0 0	.....	...	
Panch Mahals ...	...	.....	.....	.....	.....	.....	.....	...	
Surat ...	...	38,343 13 4	38,343 13 4	16,955 0 0	25,545 0 0	42,500 0 0	4,156 2 8	...	
North Thána ...	...	15,009 0 0	15,009 0 0	.....	15,664 8 0	15,664 8 0	655 8 0	...	
West Thána ...	...	.....	.....	.....	.....	.....	.....	...	
East Thána ...	...	3,000 0 0	3,000 0 0	.....	3,000 0 0	3,000 0 0	.....	...	
West Násik ...	...	4,020 0 0	4,020 0 0	2,145 0 0	2,075 0 0	4,220 0 0	200 0 0	...	
East Násik ...	...	.....	.....	.....	.....	.....	.....	...	
Total, Contractors ...	...	64,299 13 4	64,299 13 4	19,325 0 0	49,986 8 0	69,311 8 0	5,011 10 8	...	
Disbursers.									
Direction N. C. ...	...	.....	.....	.....	.....	.....	.....	...	
Panch Mahals ...	...	61,156 13 0	61,156 13 0	238 13 0	60,918 0 0	61,156 13 0	.....	...	
Surat ...	...	2,08,684 12 10	2,08,684 12 10	10,504 12 3	2,01,381 4 6	2,11,886 0 9	3,201 3 11	...	
North Thána ...	...	1,22,908 4 11	1,22,908 4 11	19 5 2	1,23,091 12 8	1,23,111 1 10	202 12 11	...	
West Thána ...	...	1,00,639 11 7	1,00,639 11 7	.....	1,00,639 11 7	1,00,639 11 7	.....	...	
East Thána ...	...	1,09,858 9 2	1,09,858 9 2	12 9 4	1,09,845 15 10	1,09,858 9 2	.....	...	
West Násik ...	...	52,177 15 0	52,177 15 0	2,678 14 3	52,467 12 3	55,146 10 6	2,968 11 6	...	
East Násik ...	...	61,765 10 0	61,765 10 0	.....	61,765 10 0	61,765 10 0	.....	...	
Total, Disbursers ...	...	7,17,191 12 6	7,17,191 12 6	13,454 6 0	7,10,110 2 10	7,23,564 8 10	6,372 12 4	...	
TOTAL, N. C. ...	...	7,81,491 9 10	7,81,491 9 10	32,779 6 0	7,60,096 10 10	7,92,876 0 10	11,384 7 0	...	
CENTRAL CIRCLE.									
Contractors.									
West Khándesh† ...	...	3,000 0 0	3,000 0 0	.....	3,000 0 0	3,000 0 0	.....	...	
Total, Contractors ...	...	3,000 0 0	3,000 0 0	.....	3,000 0 0	3,000 0 0	.....	...	
Disbursers.									
East Khándesh‡ ...	...	79,040 14 11	79,040 14 11	110 15 1	78,935 5 0	79,046 4 1	5 5 2	...	
West Khándesh ...	...	68,329 0 7	68,329 0 7	559 5 8	68,924 13 7	69,484 3 3	1,155 2 8	...	
North Khándesh ...	...	74,626 13 7	74,626 13 7	40 10 6	74,674 7 10	74,715 2 4	88 4 9	...	
Poona ...	...	1,07,569 7 9	1,07,569 7 9	500 2 8	1,07,104 0 1	1,07,604 2 9	34 11 0	...	
Sátára ...	...	66,589 8 1	66,589 8 1	0 0 7	66,589 7 6	66,589 8 1	.....	...	
Kolába ...	...	1,15,843 10 7	1,15,843 10 7	41 6 7	1,15,963 8 0	1,16,004 14 7	161 4 0	...	
Working Plans ...	...	2,873 3 10	2,873 3 10	132 9 3	3,050 0 0	3,182 9 3	309 5 5	...	
Total, Disbursers ...	..	5,14,872 11 4	5,14,872 11 4	1,385 2 4	5,15,241 10 0	5,16,626 12 4	1,754 1 0	...	
TOTAL, C. C. ...	..	5,17,872 11 4	5,17,872 11 4	1,385 2 4	5,18,241 10 0	5,19,626 12 4	1,754 1 0	...	

* Last year there was a debit balance of Rs. 1,312-1-8 but after the close of Forest Year Accounts a credit of Rs. 2,250 was raised by journal entry and hence the credit balance of Rs. 937-14-4.

† The balance of Rs, 10,000 against the West Khandesh Famine Fodder shown in the last year's statement had been transferred to Presidency Famine Fodder Accounts.

‡ The balance of Rs. 20-7-11 against the West Khandesh Famine Fodder in the last year's statement has been transferred to Presidency Famine Fodder Accounts.

FORM No. 70.—*Outstandings and Liabilities on account of Contractors and Disbursers for the year 1921-1922*—concld.

Division.	Department Debtor.			Department Creditor.			Balance Due		Remarks
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (Outstandings)	By Department (Liabilities).	
1	2	3	4	5	6	7	8	9	10
SOUTHERN CIRCLE.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
Contractors.									
Belgaum ...	...	2,04,419 10 6	2,04,419 10 6	1,05,365 15 10	1,54,247 10 2	2,59,613 10 0	55,193 15 6	...	
Kánara, N. D. ...	...	77,688 12 2	77,688 12 2	92,965 8 2	1,04,128 6 11	1,97,093 15 1	1,19,405 2 11	...	
Kánara, E. D. ...	...	95,660 8 2	95,660 8 2	67,957 9 9	93,975 0 0	1,61,932 9 9	66,272 1 7	...	
Kánara, S. D. ...	...	66,477 4 8	66,477 4 8	36,416 7 5	72,386 1 6	1,08,802 8 11	42,325 4 3	...	
Kánara, C. D. ...	...	40,149 7 11	40,149 7 11	46,442 9 8	50,000 0 0	96,442 9 8	56,293 1 9	...	
Kánara, W. D. ...	...	38,500 0 11	38,500 0 11	1,02,654 11 9	20,000 0 0	1,22,654 11 9	84,154 10 10	....	
School Division ..	...	28,477 5 0	28,477 5 0	14,327 5 0	14,150 0 0	28,477 5 0	.....	...	
Total, Contractors ...	...	5,51,373 1 4	5,51,373 1 4	4,66,130 3 7	5,08,887 2 7	9,75,017 6 2	4,23,644 4 10	...	
Disbursers.									
Direction ...	...	.....	.....	.....	.....	.....	.....	...	
Belgaum ...	...	1,68,524 8 5	1,68,524 8 5	12,804 1 5	1,65,028 9 0	1,77,832 10 5	9,308 2 0	...	
Kánara, N. D. ..	...	2,52,864 1 8	2,52,864 1 8	31,204 8 11	2,42,755 1 10	2,73,959 10 9	21,095 9 1	...	
Kánara, E. D. ...	...	1,44,384 14 2	1,44,384 14 2	14,978 14 4	1,49,970 14 4	1,64,949 12 8	20,564 14 6	...	
Kánara, S. D. ...	...	67,145 3 5	67,145 3 5	6,368 2 10	67,781 14 0	74,150 0 10	7,004 13 5	...	
Kánara, C. D. ...	...	94,642 3 5	94,642 3 5	11,726 10 9	87,653 15 5	99,380 10 2	4,738 6 9	...	
Kánara, W. D. ...	...	1,11,053 0 11	1,11,053 0 11	7,246 12 7	1,07,859 4 9	1,15,106 1 4	4,053 0 5	...	
Dhárwár-Bijápur ...	...	64,256 15 4	64,256 15 4	4,933 7 9	61,960 1 6	66,893 9 3	4,456 15 9	...	
School Division ...	...	37,530 4 10	37,530 4 10	3,910 10 8	35,440 0 0	39,350 10 8			
Total, Disbursers ..	...	9,40,401 4 2	9,40,401 4 2	93,173 5 3	9,18,449 12 10	10,11,623 2 1	71,221 13 11	...	
TOTAL, S. C. ...	...	14,91,774 5 6	14,91,774 5 6	5,59,303 8 10	14,27,336 15 5	19,86,640 8 3	4,94,866 2 9	...	
SIND CIRCLE.									
Contractors.									
Direction (Sind) ...	...	100 0 0	100 0 0	.....	100 0 0	100 0 0	.....	...	
Karachi ...	...	17,030 0 0	17,030 0 0	14,000 0 0	23,030 0 0	37,030 0 0	20,000 0 0	...	
Hyderabad (Sind) ...	...	24,498 11 0	22,498 11 0	17,478 11 0	22,020 0 0	39,498 11 0	17,000 0 0	...	
Lárkána ...	...	7,420 0 0	7,420 0 0	7,000 0 0	420 0 0	7,420 0 0	.....	...	
Shikarpur ...	...	30 0 0	30 0 0	.....	30 0 0	30 0 0	.....	...	
Sukkar ...	...	5,525 0 0	5,525 0 0	5,500 0 0	25 0 0	5,525 0 0	.....	...	
Thar and Parkar ..	...	.....	.....	.....	.....	.....	.....	...	
Total, Contractors...	...	52,603 11 0	52,603 11 0	43,978 11 0	45,625 0 0	89,603 11 0	37,000 0 0	...	
Disbursers.									
Direction (Sind) ...	...	.....	.....	.....	.....	.....	.....	...	
Karáchi ...	...	66,620 8 9	66,620 8 9	5,266 9 9	72,265 15 6	77,532 9 3	10,912 0 6	...	
Hyderabad (Sind) ..	...	38,507 0 4	38,507 0 4	1,446 2 5	39,070 8 0	40,516 10 5	2,009 10 1	...	
Lárkána ...	...	24,566 8 10	24,566 8 10	412 6 10	24,705 2 0	25,117 8 10	551 0 0	...	
Shikarpur ...	...	27,098 15 6	27,098 15 6	1,577 2 8	25,723 5 3	27,300 7 11	201 8 5	...	
Sukkur ..	...	46,904 15 2	46,904 15 2	2,838 1 8	46,245 1 9	49,083 3 5	2,178 4 3	...	
Thar and Parkar ...	..	.....	.....	.....	.....	.....	.....	...	
Total, Disbursers ...	...	2,03,698 0 7	2,03,698 0 7	11,540 7 4	2,08,010 0 6	2,19,550 7 10	15,852 7 3	...	
Total, Sind Circle ...	...	2,56,301 11 7	2,56,301 11 7	55,519 2 4	2,53,635 0 6	3,09,154 2 10	52,852 7 3	...	
GRAND TOTAL PRESIDENCY.	937 14 4	32,23,596 11 7	32,24,534 9 11	6,49,078 1 11	32,82,395 2 7	39,31,473 4 6	7,07,173 7 10	234 13 3	

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GOVERNMENT OF BOMBAY.

REVENUE DEPARTMENT.

Resolution No. P.—57.

Bombay Castle, 23rd February 1923.

Read Report of the Forest Administration in the Bombay Presidency (including Sind), for the year 1921-22, submitted by the Chief Conservator of Forests, Bombay Presidency.

RESOLUTION.—The timber trade has not escaped the worldwide post-war depression that has overtaken most trades and industries. Scarcity of labour and high wages increased the cost of production, while the revision of pay of establishments, which the high prices caused by the war necessitated, further reduced the margin between revenue and expenditure. It was during such a time that the Department was transferred to the Minister under the Reforms Scheme. While on the one hand large capital expenditure on mechanical appliances and improved means of transport, such as light railways, to replace the deficiency of carts and labour was necessary, on the other hand it was imperative to effect the most rigid economy in all possible directions, if the forests were to be run on business lines and show profits. The large schemes of capital expenditure, which cannot yield immediate return and must take time to fructify, are being financed from loan funds. The most important of these are the extension of light railways in Kanara and the exploitation of the rich but undeveloped forests of Peint and the Dangs. The need for economy has been met by a jealous scrutiny of all expenditure and reduction of establishment wherever possible. A saving of about two lakhs of rupees under establishment has been effected till now. A good deal of this saving has been made in the Central Circle where there are no important forests except in the Kolaba Division.

2. The slump in the market noted in last year's report continued and was, if anything, accentuated in the year under review. Prices realised for coupes in Thana, South Dangs, Kanara and some divisions in Sind were poor, while some coupes remained unsold. Several contractors failed in the Southern Circle. Financial stringency was acutely felt by Government and private contractors alike, while the rates for all kinds of labour remained high. Considering the circumstances the financial results of the year's working may be regarded as fairly satisfactory. The revenue was Rs. 72,97,138 and expenditure Rs. 47,49,902, compared with a revenue of Rs. 63,37,549 and expenditure of Rs. 46,31,382 in the previous year. The percentage of surplus to gross revenue was 34·9 as compared with 21·9 in the preceding year. The revenue realised represents a return of 54 per cent. on the expenditure which must be regarded as satisfactory, specially considering the depressed state of the market. The net revenue in the Southern Circle increased by 7·3 lakhs, and the percentage of surplus to gross revenue in the Circle improved from ·7 to 25·3. As pointed out by the Chief Conservator, however, this increase in the revenue of the Southern Circle cannot be regarded as an indication of a prosperous year in the Circle, being due partly to recovery of large outstandings and partly to larger supplies of sleepers and fuel to the railways.

3. The forest problems of different parts of the Presidency are different. The Thana forests of the Northern Circle are the most remunerative. This is mainly due to the proximity of Bombay. Departmental agency is not necessary for the exploitation of these forests which are let out standing to

substantial contractors among whom there is good competition. The result is that a maximum of revenue is obtained for a minimum of expenditure. A few more roads, which will raise the value of the coupes by facilitating the removal of forest produce, are necessary, and they are being constructed as funds permit. The revised working plans of these forests which have been sanctioned are expected to lead to considerably larger return. Government have also appointed a settlement officer for the gurcharan areas of the Thana district for laying down the lines of exploitation of the valuable timbers in these areas with due regard to the interests of the people exercising privileges in the areas.

4. The problems of Peint and the Dangs in the Northern Circle are quite different. There is valuable timber here, but it is unexploited. Communications are bad, and there are no contractors capable of taking up standing forests as in Thana. The forests must therefore be exploited through the agency of the department. In Government Resolution, Revenue Department, No. 3842 dated 19th May 1922 Government have sanctioned a scheme for the exploitation and development of Peint. A Working Plans Officer has since been appointed for the area. The scheme is expected ultimately to yield a revenue of Rs. 8 lakhs a year.

5. As for the Dangs a detailed scheme for the exploitation of the rich Kot jungles has been drawn up by Mr. Martin, Consulting Engineer to the Government of India, and Mr. Pipe, Forest Engineer, and scrutinised by the Conservator and the Chief Conservator. The Forest Engineer has made a survey of most of the proposed railway line. It is an important scheme presenting many difficult problems and will have to be carefully considered before the large expenditure which it involves is finally undertaken.

6. In the Central Circle there are no important forests except in the Kolaba Division. Most of the revenues of this Circle is obtained from grazing fees. The surplus is small. A very large reduction in establishment has recently been effected in this Circle, and grazing fees have been doubled. Even this increased fee represents a very small fraction of the value of the grazing to the people. With these increases it is expected that this Circle will show much better profits than hitherto. There are valuable teak trees in malki numbers in the Haveli and Patan talukas in this Circle. A special Mamlatdar has recently been appointed to formulate proposals for the acquisition of the numbers. The Forests in Khandesh are good, but they will take some years to show the results of proper management in handsome yearly profits.

7. The most extensive and potentially the most valuable forests in this Presidency are in Kanara and parts of Belgaum in the Southern Circle; yet owing to numerous difficulties this area has not paid well since the days of the war and the demands of the Munitions Department. There are very few substantial contractors in the area, the few who existed have been hard hit recently by the slump in prices and labour difficulties, and many have failed. Carts are few and far between, and the labour supply is most precarious. Owing to these reasons the percentage of surplus to gross revenue was 23·6 in 1919-20, it fell to ·7 in 1920-21, but rose to 25·3 in the year under report. Standing forests are sold to contractors in the teak pole areas of Haliyal, and efforts are being made to extend the system to the high forests also, but owing to scarcity of suitable contractors most of the exploitation work will have to be carried out for years to come through departmental agency. There is a good and growing demand from railways and other departments for fuel, sleepers, waggon boards, etc., but for large operations on an extensive scale it is necessary to adopt mechanical appliances and improved means of transport. Government have recently sanctioned a logging line of nine miles from Dandeli to Potoli. It is estimated to yield 17 per cent. on a capital outlay of Rs. 2,90,000.

8. Government are pleased to notice the improvement in general protection, including fire protection. The total number of offences of all kinds decreased by 12 per cent. Early firing under the control of the Forest Department has led to good results in the Southern Circle and may be tried elsewhere.

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9. It is satisfactory to note that agitation against the department in the Southern Circle has decreased. Very generous measures for the extension of minor forests and grant of privileges have been proposed by Mr. Collins and recently sanctioned by Government. Minor forest below ghat has been extended by 33,311 acres instead of the 20,000 acres promised in the Press Note of 21st September 1920; additional concessions regarding fuel, soppu, cutting of trees for agricultural implements, etc., have been given. The strip rules have been revised, and the question of betta leases is now under consideration of Government. After these liberal measures Government trust that all genuine causes of dissatisfaction with the forest administration in Kanara will be removed. Government commend the efforts of Mr. Basrur in the Honavar taluka in getting the people to co-operate with the department.

10. The thanks of Government are due to the Chief Conservator and his staff for their arduous and valuable work during the year.

By order of the Government of Bombay
(Transferred Departments),

A. R. DALAL,
Deputy Secretary to Government.

G. R. No. P.—57, R. D., dated the 23rd February 1923.

To

*The Commissioner in Sind,
*The Commissioners of Divisions,
*All Collectors, including the Deputy Commissioner, Upper Sind Frontier,
*The Director of Agriculture,
The Chief Conservator of Forests, Bombay Presidency,
The Conservator of Forests, Sind Circle,
The Conservator of Forests, N. C.,
The Conservator of Forests, C. C.,
The Conservator of Forests, S. C.,
*The Settlement Commissioner and Director of Land Records,
*The Director of Industries,
*The Accountant General,
*The Compiler, General Administration Report,
*The Oriental Translator to Government,
*The Public Works Department,
*The Secretary, Legislative Council (for the Reading Room for the Members of the Legislative Council),
*The Director of Information,
*The Editors' Tables,
†The Government of India,
†The High Commissioner for India.

*With copies of the Report.
†By letter.

No. of 1923.

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